

Concentration	Alternative Programs	Program Description	Program/Department Requirements	Program/Department Information	Program Advising Center
Biomedical Engineering	Biology	The Biology (Bachelor of Science) degree is designed for students seeking careers in a variety of health-related, industrial, business, academic, research, and professional fields. Students study topics in cellular/molecular biology, developmental biology, ecology, evolution, and organismal biology. The coastal wetlands of eastern North Carolina, the large professional health community, and the excellent facilities associated with the university medical and dental programs offer educational and research opportunities to students.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Chemistry	The Chemistry (Bachelor of Science) degree is designed for students considering advanced degree programs in chemistry, biochemistry, and other related fields or professional careers. Students study general, organic, and physical chemistry in the program, as well as calculus and some physics.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Mathematics	The Mathematics (Bachelor of Science) degree is designed for students with sophisticated reasoning and problem-solving skills. Students typically start careers in private businesses, the public sector (local, state, and federal government), education, and nonprofit organizations. While in the program, students study Calculus and statistics, Chemistry I and II, Computer Science, as well as Math theory, physics, and advanced algebra.	Program/Department Requirements	Program/Department Information	Program Advising Center
Bioprocess Engineering	Chemistry	The Chemistry (Bachelor of Science) degree is designed for students considering advanced degree programs in chemistry, biochemistry, and other related fields or professional careers. Students study general, organic, and physical chemistry in the program, as well as calculus and some physics.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Biology	The Biology (Bachelor of Science) degree is designed for students seeking careers in a variety of health-related, industrial, business, academic, research, and professional fields. Students study topics in cellular/molecular biology, developmental biology, ecology, evolution, and organismal biology. The coastal wetlands of eastern North Carolina, the large professional health community, and the excellent facilities associated with the university medical and dental programs offer educational and research opportunities to students.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Industrial Engineering Technology	The Industrial Engineering Technology (Bachelor of Science) degree prepares students to apply basic engineering principles and technical skills in production and service environments. Students learn basic engineering, electricity/electronics fundamentals, Computer Numerical Control (CNC), and electromechanical systems. Some career choices of IET majors are Operations Manager, Chief Executive Officer, Project Engineer, and Industrial Engineer.	Program/Department Requirements	Program/Department Information	Program Advising Center
Electrical Engineering	Computer Science	The Computer Science (Bachelor of Science) degree is designed for students whose creative problem solving skills are used through modern computers to advance civilization. Students study algorithms, software engineering, and statistics. Professionals with the Computer Science degrees could start careers with Microsoft, IBM, NASA, Cisco, and many other opportunities without boundaries.	Program/Department Requirements	Program/Department Information	Program Advising Center
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Environmental Engineering	Chemistry	The Chemistry (Bachelor of Science) degree is designed for students considering advanced degree programs in chemistry, biochemistry, and other related fields or professional careers. Students study general, organic, and physical chemistry in the program, as well as calculus and some physics.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Biology	The Biology (Bachelor of Science) degree is designed for students seeking careers in a variety of health-related, industrial, business, academic, research, and professional fields. Students study topics in cellular/molecular biology, developmental biology, ecology, evolution, and organismal biology. The coastal wetlands of eastern North Carolina, the large professional health community, and the excellent facilities associated with the university medical and dental programs offer educational and research opportunities to students.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Geology	The Geology (Bachelor of Science) major educates students about the wide range of external and internal geological processes that shape the world we live in. Majors study topics such as rocks, minerals, rivers, beaches, volcanoes, glaciers, earthquakes, plate tectonics, groundwater, global climate change, soils, and sediments. Using a wide variety of tools and techniques, students learn how geologists investigate environmental hazards such as earthquakes, landslides, floods, hurricanes, beach erosion, volcanic eruptions, water pollution, and toxic chemical spills, the impact of changes in climate and sea level change on the environment and on human populations, the availability of mineral, energy, and water resources, the history of the earth and its inhabitants, and many other exciting topics.	Program/Department Requirements	Program/Department Information	Program Advising Center
Industrial & Systems Engineering	Industrial Engineering Technology	The Industrial Engineering Technology (Bachelor of Science) degree prepares students to apply basic engineering principles and technical skills in production and service environments. Students learn basic engineering, electricity/electronics fundamentals, Computer Numerical Control (CNC), and electromechanical systems. Some career choices of IET majors are Operations Manager, Chief Executive Officer, Project Engineer, and Industrial Engineer.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Mathematics	The Mathematics (Bachelor of Science) degree is designed for students with sophisticated reasoning and problem-solving skills. Students typically start careers in private businesses, the public sector (local, state, and federal government), education, and nonprofit organizations. While in the program, students study Calculus and statistics, Chemistry I and II, Computer Science, as well as Math theory, physics, and advanced algebra.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Design	The Design (Bachelor of Science) degree emphasizes the application of software, digitizing, and product realization/development equipment. The Architectural Concentration includes instruction on architectural drafting, building codes & standards, and computer-assisted drafting and design. The Mechanical Concentration includes instruction on design testing procedures, applications to specific engineering systems, and manufacturing system-testing procedures.	Program/Department Requirements	Program/Department Information	Program Advising Center
Mechanical Engineering	Industrial Engineering Technology	The Industrial Engineering Technology (Bachelor of Science) degree prepares students to apply basic engineering principles and technical skills in production and service environments. Students learn basic engineering, electricity/electronics fundamentals, Computer Numerical Control (CNC), and electromechanical systems. Some career choices of IET majors are Operations Manager, Chief Executive Officer, Project Engineer, and Industrial Engineer.	Program/Department Requirements	Program/Department Information	Program Advising Center
	Design	The Design (Bachelor of Science) degree emphasizes the application of software, digitizing, and product realization/development equipment. The Architectural Concentration includes instruction on architectural drafting, building codes & standards, and computer-assisted drafting and design. The Mechanical Concentration includes instruction on design testing procedures, applications to specific engineering systems, and manufacturing system-testing procedures.	Program/Department Requirements	Program/Department Information	Program Advising Center
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