DEPARTMENT OF NATURAL SCIENCES

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The Department of Natural Sciences offers degrees in biology and chemistry with course offerings in physics and engineering. The department also offers a degree in science education with a broad based emphasis in biology area.

**BIOLOGY**

The major in biology provides courses and course sequences leading to the Bachelor of Science degree in biology. The program prepares a student for pro- fessional careers and employment in biological sciences and teaching in the area of biology. Flexibility and design of the program aids in preparation for en- trance into graduate, medical, pharmacy and dental schools, as well as other professional schools. Students interested in attending medical and dental schools choose from a select number of biology and chemistry courses and are advised by the Pre-Health Advisor.

Students majoring in biology must complete a minimum of 32 hours in biology, including Biology 2111K, 2112K, 2211K, 2311K, 3101K, 3501K, 4001,

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4222 and 4701K. Additionally, the Biology major must complete 13 hours of biology electives. The electives will be chosen by the student with the advisor from a list of approved electives. Biology majors and minors must make a “C” or better in all biology, chemistry, physics, and mathematics courses. Students must meet the requirements of the Core Curriculum and pass the Regents Exam. Students must also pass a Area Concentration Achievement Test (ACAT) in biology field during the senior year. Science Education Majors (Broad Field Biology Emphasis) must complete a minimum of 56 hours in science, including Biology 2111K, 2112K, 2311K, 3250K, and 3501K. Students must also meet the requirements of the Core Curriculum and pass the Regents and GACE I exams. Students are required to pass major field examinations (GACE II) during the senior year. A grade of “C” or better is required in all science and math- ematics courses and a science education major must maintain at least a 2.5 GPA to graduate. (See teacher education advisor for additional requirements)

**CHEMISTRY**

The major in chemistry provides courses and sequences leading to the Bachelor of Science degree in chemistry. The major program is designed to follow the criteria for baccalaureate degrees as set forth by the Committee on Professional Training of the American Chemical Society. The program prepares the student for professional employment after graduation and also provides strong academic and laboratory experiences for those students who wish to pursue graduate degrees in chemistry or professional schools.

Students must meet the requirements listed in the Core Curriculum and pass the Regents’ examination. The major in chemistry must complete a minimum of 49 semester hours of chemistry. All students are required to earn at least a grade of “C” in all chemistry, biology, physics, and mathematics courses. All students are required to take the American Chemical Society standardized test in the area in which they are enrolled. Students must take a Major Field Achievement Test (MFAT) during the senior year.

**ENGINEERING**

Albany State University offers two tracks of pre-engineering programs that lead to a Bachelor of Engineering degree from the Georgia Institute of Technol- ogy: (1) The Regents’ Engineering Transfer Program (RETP) and (2) Dual Degree Program.

**TRACK 1**

The Regents Engineering Transfer Program (RETP) is a cooperative program between the Georgia Institute of Technology and Albany State University that allows students to complete the first two years of the engineering program at Albany State University and then transfer to Georgia Tech to their chosen field of engineering to complete the requirements of B.S. degree in engineering. Student will be admitted to Georgia Tech upon completion of the prescribed courses at Albany State University provided (s)he maintains an overall GPA of 2.7 as well as 2.7 in science and mathematics courses at ASU. At times Georgia Tech may add certain requirements for admission to junior level, which will equally be applied to Georgia Tech students also for advancing to the junior level in that field.

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To be eligible for admission to the RETP at Albany State University one must be a resident of Georgia and must have a minimum SAT scores of 560 on the math and 440 on the verbal portion and a high school GPA of “B” or better. Students who prefer to live and study in a smaller community may also transfer to Georgia Tech Regional Engineering Program (GTREP) at coastal city of Savannah and receive the Georgia Tech engineering degree by completing their studies at Georgia Tech campus at Savannah.

**TRACK 2**

The Dual Degree Program (3+2) is also a cooperative program between Georgia Tech and Albany State University that is designed for students who want to have a broad liberal arts background in addition to their chosen field of engineering. The student will complete approximately three years of study towards a program in Chemistry, Computer Science or Mathematics at Albany State University and then transfer to Georgia Tech for two additional years of study in his/her chosen field of engineering. Upon successful completion of the two programs, student will earn a B.A. degree from Albany State University and a B.S. degree in Engineering from Georgia Tech. The admission and transfer requirements for Dual Degree Program are the same as the RETP program.

Students are advised to follow the customized list of courses for each engineering discipline in order to complete their degree goal in the most efficient man- ner. Non-resident of Georgia and international students also can join the engineering program at ASU though the transfer to Georgia Tech will require higher GPA. One may also apply for transfer to other engineering colleges in the region. In the past, students have transferred to the engineering programs at Auburn University, Florida A & M University, Tuskegee University, North Carolina A&T State University and Mercer University.

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