DIVISION OF NATURAL and COMPUTATIONAL SCIENCES

The Division of Natural and Computational Sciences is comprised of the Departments of Computer Science, Mathematics, and Natural Sciences. The Department of Natural Sciences includes biology, chemistry, and physics. Students may elect to major in Biology, Computer Science, or Mathematics and minor in Biology, Chemistry, Computer Science, or Mathematics. To earn the bachelor's degree, students must complete the required hours in the general education core, the institutional course requirements, and the content (major program) area requirements.

OBJECTIVES: The Division of Natural and Computational Sciences:

- Offers students a basic knowledge of the sciences;
- Develops skills, concepts, and methodologies of scientific inquiries;
- Prepares students for professional and advanced studies in mathematics and sciences;
- Provides pre-professional training in medicine, dentistry, pharmacy, nursing, and engineering; and
- Provides training for teachers.

BIOLOGY

The Department of Biology offers diversified programs that enable students to select a curriculum that best suits their career goals. A baccalaureate path with a major or minor in Biology is available to the students. The biology program is ideal preparation for students pursuing the following allied health careers: nursing, occupational therapy, physical therapy, and chiropractic medicine. The program provides the skills necessary to enter professional programs as well as professions in industry, agribusiness, food management, cosmetics, pharmaceuticals, and the retail industry. The secondary teaching certification requirements may also be fulfilled with the biology major. A minimum of 126 program credit hours are needed to satisfy the major. (See Degree Plans in the Texas College Catalog.)

OBJECTIVES: The biology major is designed for students who seek:

- A career as a professional biologist in industry;
- Graduate studies and research in the biological sciences;
- Preparation necessary for studies in nursing, medicine, dentistry, optometry, veterinary medicine, pharmacy, and medical technology; and
- Combined training in physical education and health-related fields.

CHEMISTRY AND PHYSICS

The chemistry and physics subject areas together constitute the physical sciences within the natural sciences. The chemistry program offers courses that prepare students for continued studies in chemistry, for chemically-related professional careers, and for industrial employment positions. A strong chemistry background is also necessary to prepare students for careers in the biological sciences, health, science teaching, and allied health careers.

OBJECTIVES: The objectives of the chemistry and physics programs are to:

- Provide a strong and competitive minor program in chemistry;
- Provide teacher training requirements;
- Prepare students for continued training in chemistry, the biological sciences, and health related careers;
- Prepare students for chemistry related industrial employment;
- Provide knowledge and skills in the physical sciences required for the appreciation of the natural and technological world.

COMPUTER SCIENCE

The Department of Computer Science offers a 125 semester hour program of study leading to the Bachelor of Science degree in computer science. Students with a GPA of 3.20 can be nominated for the UNCF/Melon Undergraduate Fellowship Program, or the Ronald E. McNair Post-baccalaureate Achievement Program, both of which prepare students for graduate school. See Degree Plans in the Texas College Catalog.)

OBJECTIVES: The Computer Science Department:

- Trains students to be computer literate;
- Enables students to function efficiently in this information age;
- Provides students with a foundation of theory, knowledge and skills for students who desire to pursue advanced study in computer science or related fields;
- Prepares students for a smooth transition to graduate school; and
- Prepares students for productive careers in the public and private sectors.

MATHEMATICS

The Mathematics Department offers programs of study leading to a Bachelor of Arts or Science degree in Mathematics and a Bachelor of Science degree in Mathematics with Teacher Certification. A minimum of 125 program credit hours are needed to satisfy the major. (See Degree Plans in the Texas College Catalog.)

OBJECTIVES: Objectives of the mathematics program are to:

- Provide students with a broad education in pure and applied mathematics;
- Provide a foundation of theory, knowledge, and skills for students who desire to pursue advanced study in mathematics;
- Provide education and training for prospective teachers; and
- Offer students opportunities to gain appreciation of the artistic nature and cultural beauty of mathematics.

DEVELOPMENTAL EDUCATION AND ACADEMIC SUPPORT

Texas College is committed to helping students develop the skills needed to optimize the probability of success academically and socially. In support of this aspect of the mission, the College provides developmental education courses and learning support services to assist students in being successful as they matriculate through their higher education experience.

DEVELOPMENTAL EDUCATION PROGRAM. The primary role of the developmental education courses is to prepare students to enroll in the college-level courses offered after placement testing (pre-testing) in the basic academic skills of grammar, writing, study-reading, and basic mathematics/ pre-algebra. The preparation provided enables students to begin college-level courses with greater confidence and ability to comprehend and integrate subject matter at a more advanced level than experienced at the high school level.

Developmental Education Courses. Developmental education courses are structured classes aimed at providing basic skills assistance in writing, reading, and mathematics. Students enrolled in Development Educational Courses will not receive credit hours toward a degree plan for the completion of these classes. Enrollment in the courses presented below is required based on results of placement exams:

Developmental Mathematics Education Courses

Course Code	Course Name	Credit Hours
MATH 0201	Developmental	2
MATH 0202	Developmental	2

TEXAS COLLEGE
Mission Statement and Core Values

Texas College is a historical black college founded in 1894, by a group of CME ministers. Our mission, which continues to embody the principles of the Christian Methodist Episcopal Church, is to ***ensure that the student body experiences balanced, intellectual, psychological, social and spiritual development, aimed at enabling them to become active productive members of society where they live and work.*** (Recast and approved by the Board of Trustees at the Annual Meeting, April 15, 2011).

To address the mission, the College incorporates the core values of:

Academic Excellence – developing a culture of curiosity and creativity that will challenge the frontiers of teaching/learning; stimulate research; raise the level of analytical reasoning and inquiry; and enable students to acquire leadership, human relations, communications, and technology skills.

Integrity – instilling the pursuit of character, honesty and sincerity of purpose as the moral rubrics upon which the behaviors of our graduates and College family are anchored.

Perseverance – implanting diligence, enterprise and pride in the application of skills, knowledge and abilities developed during the course of study at Texas College.

Social Responsibility – promoting in the College community a conscious awareness that we are all stewards of the resources entrusted to our care.

Tolerance – emphasizing openness to divergent points of view, applying an eclectic approach to rational and analytical thinking.

Community Service – encouraging self-extension in service to others as the heart and soul of our educational enterprise.

DIVISION OF NATURAL and COMPUTATIONAL SCIENCES FACULTY

Dr. Jayanthi Boggaram
Division Chair of Natural and Computational Sciences
Assistant Professor of Computer Science

Ms. Rosia Edwards
Assistant Professor of Mathematics

Dr. Mamta Gupta
Assistant Professor of Biology

Mr. Otis Hood
Instructor of Mathematics

Dr. Alexei Iakhiaev
Assistant Professor of Biology and Physics

Ms. Linda Johnson
Instructor of Biology

Mr. Bob Malek
Assistant Professor of Mathematics

Dr. Shah Salam
Associate Professor of Computer Science

Dr. Christopher Sparrow
Assistant Professor of Chemistry

For full disclosure of Texas College's Admissions Policies, please visit our website at
http://www.texascollegeonline.net/requirements.asp
or contact the Office of Admissions.

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DIVISION OF NATURAL and COMPUTATIONAL SCIENCES

Biology | Computer Science
Mathematics

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Come GROW with Us!!!

Texas College is an affiliate of the Christian Methodist Episcopal (CME) Church.