APPLICATION PROCESS:
Students begin the application process by completing a Francis Tuttle application for admission, which can be found in their high school counselor’s office or at francistuttle.edu, and submitting the application to the high school counselor or to a Francis Tuttle representative. Then, eligible students and parents will be invited to participate in an on-site interview.

HIGH SCHOOL GRADUATION REQUIREMENTS:
Through enrollment in the Academies, students have the opportunity to earn core credits in math and science and elective credits for the discipline-specific courses. Francis Tuttle reports all grades to the partner high schools to count for high school graduation requirements.

HOME-EDUCATED STUDENTS:
Home school students that reside in the Francis Tuttle district are eligible to attend at no cost. Students must complete an application and meet the listed entrance requirements for the Academy they are interested in attending.

It is the policy of Francis Tuttle not to discriminate with regard to race, color, religion, gender/sex, national origin, age, marital or veteran status, or disabilities. This policy shall be followed in the operation of its educational programs and activities, recruitment, admissions, employment practices and other educational services. Inquiries concerning application of this policy may be directed to the Human Resources Director, who serves as the Coordinator of Title IX, Section 504, and Americans with Disabilities Act for all campuses, at 12777 N. Rockwell, Oklahoma City, OK 73142-2789, (405) 717-7799.
FRANCIS TUTTLE
ACADEMIES

PRE-ENGINEERING | BIOSCIENCES & MEDICINE
COMPUTER SCIENCE
ACADEMY INFORMATION

BIOSCIENCES & MEDICINE

RATIONALE:
Many issues face the health care industry now and in the near future, key among them a shortage of qualified workers, according to findings published in the Governor’s Council on Workforce and Economic Development’s Oklahoma Health Care Industry Workforce 2006 Report. Due to this need, Francis Tuttle has joined with higher education partners (University of Oklahoma, Oklahoma City Community College) to identify those students with an interest in research and medicine and to help fill the need for health care professionals by getting students into health programs at colleges and universities.

OVERVIEW:
The Biosciences & Medicine Academy is designed to prepare high school sophomores, juniors and seniors for success in colleges and universities. Rigorous math and science (Pre-AP and AP level only) are combined with medically-related classes to provide students with the academics they will need to be successful in a Bachelor’s program and gain an understanding of the broad field of biosciences and medicine.

High school students may attend for up to three school years. Graduates from the Academy should be planning to pursue a college or university track to obtain a degree in some field within the biosciences and medicine fields.

CURRICULUM:
The Academy focuses on college preparation and includes advanced math and science curriculum and Project Lead The Way courses, a national program which features partnerships among public schools, higher education institutions and the private sector to increase the quantity and quality of graduates.

MATH COURSES:
- Pre-AP Geometry
- Pre-AP Algebra II
- Pre-AP Pre-Calculus/Trigonometry
- AP Calculus AB and BC
- AP Statistics

SCIENCE COURSES:
- Pre-AP Chemistry
- Pre-AP Anatomy & Physiology
- Pre-AP Microbiology
- Pre-AP Physics
- AP Chemistry

PROJECT LEAD THE WAY COURSES:
- Principles of Biomedical Sciences
- Human Body Systems
- Medical Interventions
- Biomedical Innovations

ENTRANCE REQUIREMENTS:
- Candidate must be at or above grade level in reading and math and demonstrate a high interest and/or aptitude in math, science and health fields. Must have taken Biology I and Algebra I with a grade of B or better.
- Candidate must have passed eighth grade state tests in reading and mathematics and have a minimum of a 3.0 overall GPA
- Candidate must be at least of sophomore status before starting in the Academy

BIOSCIENCES & MEDICINE ACADEMY CONTACT INFO:
405.717.4196
francistuttle.edu/bio

PRE-ENGINEERING

RATIONALE:
It is estimated that almost 66 percent of students entering colleges of engineering will change majors or drop out of college before the end of their second year. Nationally, the need for engineers is increasing while the number of engineering graduates has not kept pace. The issue is not necessarily that too few students enter our colleges of engineering, but rather, that too few are adequately prepared to complete the rigorous math and science courses required for graduation. The Pre-Engineering Academy was developed to help counter these issues. Through active partnerships with Oklahoma State University, University of Oklahoma and Oklahoma Christian University, the Pre-Engineering Academy is helping students understand what engineers do and the education needed to become one.

OVERVIEW:
The Pre-Engineering Academy is designed to prepare high school sophomores, juniors, and seniors for success in colleges of engineering. Rigorous math and science (Honors and AP level only) are combined with engineering-related courses to provide students with the academics they will need and an understanding of engineering to help them decide if this is truly the field they wish to pursue.

High school students may attend for up to three school years. Graduates from the Academy should be planning to pursue a university track to obtain a degree in some discipline of engineering.

CURRICULUM:
The Academy focuses on college preparation and includes advanced math and science curriculum and Project Lead The Way courses, a national program which features partnerships among public schools, higher education institutions and the private sector to increase the quantity and quality of graduates.

MATH COURSES:
- Pre-AP Geometry
- Pre-AP Algebra II
- Pre-AP Pre-Calculus/Trigonometry
- AP Calculus AB and BC

SCIENCE COURSES:
- Pre-AP Chemistry
- Pre-AP Physics
- AP Chemistry
- AP Physics

PROJECT LEAD THE WAY COURSES:
- Principles of Engineering
- Introduction to Engineering Design
- Digital Electronics
- Computer Integrated Manufacturing/Robotics
- Aerospace Engineering
- Civil/Architectural Engineering
- Engineering Design and Development

ENTRANCE REQUIREMENTS:
- Candidate must be at or above grade level in reading and math and demonstrate a high interest and/or aptitude in math, science and technology fields
- Home-educated students who live in the Francis Tuttle school district are eligible to attend and must meet the same entrance requirements
- Candidate must have passed eighth grade state tests in reading and mathematics and have a minimum of a 3.0 overall GPA (Grades of B or better in math and science courses are required)
- Candidate must be at least of sophomore status before starting in the Academy

PRE-ENGINEERING ACADEMY CONTACT INFO:
405.717.4273
francistuttle.edu/pea
COMPUTER SCIENCE

RATIONALE:
The overall U.S. science and technology workforce exceeded 7.4 million workers in 2012 and will continue to grow through 2018, reaching an estimated size of 8.6 million. Science and engineering occupations are projected to grow at 20.5%, more than double the overall U.S. labor force, of that group, 71% of the jobs are expected to be in computing disciplines and, currently, more than 136,000 computing jobs are being added annually. The Computer Science Academy will prepare students to successfully pursue higher-education degrees and careers.

OVERVIEW:
The Computer Science Academy is designed to prepare high school sophomores, juniors, and seniors for success in colleges and universities. Rigorous math and science offerings (Pre-AP and AP level only) are combined with computer-related classes to provide students with the academics they will need to be successful in a Bachelor's program and gain an understanding of the broad field of computer science.

CURRICULUM:
The Academy focuses on college preparation and includes an advanced math and science curriculum and courses from Project Lead the Way, a national program which features partnerships among public schools, higher education institutions, and the private sector to increase the quantity and quality of graduates. (Courses will be phased-in over three years.)

MATH COURSES:
- Pre-AP Geometry
- Pre-AP Algebra II
- Pre-AP Calculus/Trigonometry
- AP Calculus AB and BC

PROJECT LEAD THE WAY COURSES:
- Computer Science and Software Engineering
- Computer Science Applications
- Simulation and Modeling (½-year) and/or
  Artificial Intelligence (½-year) and/or
  Cyber Security (½-year) and
  Computational Problem Solving (1 year)

ENTRANCE REQUIREMENTS:
- Candidate must be at or above grade level in reading and math and demonstrate a high interest and/or aptitude in math, science and technology.
- Must have taken Biology I and Algebra I with a grade of B or better.
- Candidate must have passed eighth grade state tests in reading and mathematics and have a minimum of a 3.0 overall GPA
- Candidate must be at least of sophomore status before starting in the Academy

COMPUTER SCIENCE CONTACT INFO:
405.717.4191
francistuttle.edu/csa

“A seamless transition to college.”
Abigail is a medical humanities scholar at the University of Oklahoma.

Abigail Jebaraj
University of Oklahoma