Excellence in Engineering –

At Collin College, our commitment to excellence in our engineering programs is the key to the success of our program. Just as the word *"engineer"* comes from the Latin root word *"ingenium,"* which means *"provider of ingenious solutions,"* the Collin College engineering curriculum is formulated to be a design/solutions-based project learning environment.

Based on a National Science Foundation (NSF) STEP STEM Education Grant, the Engineering Department has enhanced the student experience with a state-of-the-art laboratory environment. Innovative thinking is encouraged by the small class sizes (15-25 students per class) and direct access to our outstanding faculty.

Articulation of Coursework to Universities –

Collin College works very hard to ensure success and guidance for students through the articulation process. This is accomplished through: specific transfer agreements with partner institutions that can be found on our website using the TransferU tab, as signatories to the State of Texas Voluntary Engineering Compact (www.thecb.org) and through continuous communication between Collin College advisors and advisors at our institutional transfer partners.

Through our unique relationship with the University of Texas at Dallas, specific freshman and sophomore level UT Dallas courses are taught by Collin College faculty on Collin College campuses providing an even more seamless transition to UT Dallas.

Introduction to Engineering –

The Introduction to Engineering course at Collin College is a uniquely designed course that allows the entry level engineering student to understand the importance of the Scientific Method, the Engineering Algorithm and Ethics in the everyday lives of practicing engineers. The course touches on all of the major areas in engineering, thus giving the student an opportunity to *"try on"* each separate engineering discipline.

Faculty with industrial experience coordinate the student's experience through lecture-based and problem-based learning complimented by guest speakers from industry. The course provides an opportunity for students to make fact-based choices about future professional direction. Using a self-chosen research paper topic and a semester project, students are able to tailor the course to their specific academic interests and needs.

Success in Engineering –

As calculus-based math and physics are key components to success in engineering, students are strongly encouraged to follow a pathway that includes these topics in each semester's plan. If students are not at the calculus level upon entry into the program, college algebra, trigonometry and pre-calculus, as well as developmental math, can be taken before pursuing calculus-based classes.

Technical Dual Credit In High School –

Through local ISD partnerships, a number of college-level courses in this program are offered in high schools for simultaneous high school and college credit.

Our Commitment to Student Success –

Through the guidance of our lead technical advisor, our actively engaged faculty and direct access to the engineering department leadership, students are assured answers to their questions about engineering fields of study.

Industrial Focus –

In addition to providing an excellent learning environment for students, our Engineering Department focus is on the needs of local industry. Ongoing inputs from industrial advisory boards composed of senior engineers from leading high-technology companies in the Dallas-Fort Worth Metroplex are incorporated into our program. Further, our industrial partners offer our students co-op experiences that allow students to gain perspective in real world engineering laboratories and on local factory floors.

Scholarship Opportunities –

Academic Excellence Scholarships based on generous gifts from local high-tech businesses (Texas Instruments-SMART), individuals and foundations are offered.
Even with the highly affordable tuition at Collin College, many of our students need further assistance. Collin College Foundation Scholarships can help with meeting these needs.