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COLLEGE OF TECHNOLOGY

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Programs

The College of Technology is comprised of four departments with specific majors within each department, as follows:

Department of Aeronautics

BT: Aviation Technology
Students taking the Bachelor of Technology degree are encouraged to combine both of the specialization areas—Flight and Aviation Maintenance. This provides the most competitive preparation for a career in the field of aviation. However, they may choose to limit their specialization, to meet specific aviation-related career goals.

AT: Aviation Technology
Students may earn an Associate of Technology degree by taking courses beyond those required for the certificate in either the flight or maintenance area. The additional courses give students a broader General Education base, prepare them better to perform the activities acquired by the certificate program, and facilitate study for an advanced degree.

Department of Agriculture

BS: Agriculture
The Bachelor of Science degree in Agriculture prepares individuals who intend to pursue advanced degrees leading toward a career in teaching or research.

BT: Agribusiness
The Bachelor of Technology degree in Agriculture is a career specialist's degree preparing individuals for supervisory and management positions in production agriculture.

AT: Agriculture
The Associate of Technology degree in Agriculture is a two-year program designed to provide students with skills and working knowledge to prepare them for entry-level positions in their area of specialization.

BS: Animal Science
Although colleges of veterinary science accept students who have met the minimum requirements for admission, most successful applicants are those who have completed a bachelor's degree while preparing to apply to the professional program. Entrance requirements vary among the colleges of veterinary medicine. The required prerequisite pre-veterinary courses are usually in general biology, general and organic chemistry, physics, biochemistry, mathematics, courses in animal science, and general education.

BS: Horticulture
The Bachelor of Science degree in Horticulture prepares individuals who intend to pursue advanced degrees leading toward a career in teaching or research.

BT: Horticulture
The Bachelor of Technology degree in Horticulture is a career specialist's degree preparing individuals for supervisory and management positions in horticulture or the ornamental horticulture industry.

AT: Horticulture
The Associate Technology degree in Horticulture is a two-year program designed to provide students with adequate skills and working knowledge to prepare them for entry-level positions in their area of specialization.

Department of Digital Media & Photography

BFA: Commercial Photography
Photography fosters creativity in the production of visual images. The emphases encompass elements of digital, commercial and fine arts imaging, focusing on individual creativity and photo-journalism.

BFA: Documentary Video
Students learn to design and integrate digital video and 3-D animation to produce creative advertising, documentary, promotional products, and TV graphics.

BFA: Web Design
The web design major focuses on principles of aesthetics, content, delivery, user interface, web animation, screen design, and multimedia for the creation of web pages.

Department of Engineering & Computer Science

BS: Computing
The Bachelor of Science degree in Computing offers two emphases: Computer Science, and Software Systems. Computer Science goes beyond programming and focuses on theory, processes, models, algorithms, and other aspects of computational systems. Software Systems is an applied study of computing, focusing on development and maintenance of software application programs, and requires a supporting minor in an application area.

BSE: Engineering
The Bachelor of Science in Engineering degree has emphases in Electrical and Computer Engineering and in Mechanical Engineering. These two emphases build on a strong traditional mathematics, science, and engineering core. The Electrical and Computer Engineering emphasis focuses on the area of digital systems, communication systems, and computer-controlled instrumentation and computer simulation. The Mechanical Engineering emphasis focuses on the elements of mechanical design and the electromechanical elements of smart machines.

General Courses (Credits)

See inside front cover for symbol code.

GTEC110 **(3–4)**
Freshman Seminar
College success and life enrichment skills. Included are an introduction to the resources of the university, principles of critical thinking, and Christian values clarification.

GTEC115 **(3–4)**
College Seminar
See description under GTEC110. Repeatable.

GTEC298 **(1–32)**
Prior Learning Assessment
Prior Learning Assessment (PLA) is a process which validates learning experiences occurring outside traditional college/university academic programs. A portfolio of evidence for demonstrating experience and competency justifies and determines the amount of credit granted. Repeatable with different topics.

GTEC395 **(1–4)**
Cooperative Work Experience
Supervised (by the dean or his appointee) on-the-job work experience with a cooperating industry. A minimum of 120 hours of work is required per credit. The student must submit a report of the cooperative work experience as specified by the instructor. Repeatable to 6 credits. Graded S/U. Prerequisites: an associate degree in technology or equivalent and permission of the dean. Students must apply and be accepted one semester in advance of their planned Cooperative Education experiences.

GTEC498 **(1–32)**
Prior Learning Assessment
See description under GTEC298. Total Prior Learning Assessment credits (GTEC298 and 498) may not exceed 32 credits.

Individualized Programs of Study

For students who have career goals or special interests in areas other than those provided in one of the established majors or minors, a special individualized program is available in the following degrees: Bachelor of Science, Bachelor of Technology, and Associate of Technology. An individualized concentration may be planned to meet the career goals of a student. Before the beginning of the junior year for baccalaureate-degree students or the beginning of the sophomore year for associate-degree students, the student, with the assistance of his or her advisor, prepares a proposed program of study. The program must be approved by a department faculty and the College of Technology Academic Policies and Curricula Committee.

AERONAUTICS

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Faculty
Dina M. Simmons, *Chair*
Brani D. Byers
James H. Doran
Duane E. Habenicht

Academic Programs	Credits
BT: Aviation Technology	60–88
Emphasis Areas	
Flight & Aviation Maintenance	
Flight & Business	
Flight	
Aviation Maintenance	
Aviation Maintenance & Business	
AT: Aviation Technology	40–52
Emphasis Areas	
Flight	
Aviation Maintenance	
Minor in Aviation Technology	20 or 32
Emphasis Areas	
Flight (20)	
Aviation Maintenance (32)	
Certificates	
Private Pilot	
Commercial Pilot	
Instrument Rating	
Flight Instructor	
Multi-Engine Rating	
FAA-approved Part 147, Aviation Maintenance	
Airframe	
Powerplant	
Airframe and Powerplant	

Programs

For the aviation professional, the most competitive aviation program emphasizes both flight and maintenance. Therefore, the Department of Aeronautics strongly recommends completing a degree with both Flight and Aviation Maintenance emphases. Students who wish to enter a non-flying aviation career, may limit their specialization to Aviation Maintenance.

Two programs are available. A four-year Bachelor in Aviation Technology, and a two-year Associate in Aviation Technology.

Individualized majors are available as described in the previous section

The airpark is located about 1.2 miles from the central campus. Students are expected to provide their own transportation to and from the airpark.