

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.

Ge e a C e (C ed)

See inside front cover for symbol code.

GTEC110 (3-4)

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)

See description under GTEC110. Repeatable.

GTEC298 (1-32)

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)

Supervised (by the dean or his appointee) on-the-job work experience with a cooperating industry. A me.362stry-25(or)1DC or his appointee)and dn6-îz%zîr%âe%Bzîe%SVU%©Ç%îñ%Ð©RRJ0%É

BT: Aviation Technology

Students taking the Bachelor of Technology degree may:

plane knowledge test. Topics include aerodynamics, weight and balance, Federal Aviation Regulations, navigation, meteorology, aircraft systems and performance. *Fall, Spring, Summer*

AFLT118

(6)

Sixty-five (65) hours of aircraft and (uFx-25(of)-2i)10(u)10. uBT/TT0 C Tf9 0-24o6airn718.16t5rddaircraft , (6)u Sixty-five (65) Sixi/T/T(65) uu c

AFLT485

(3)

Prepares the student for the FAA airline transport pilot knowledge

AVMT316**Alt (7)**

A study of reciprocating engine theory, overhaul methods, and practices and the installation of reciprocating engines. Also includes a study of the following engine systems: exhaust, cooling, induction, and lubrication. *Spring*

Tec**TECH140****\$ (2)**

Oxyacetylene and electric welding processes including oxyacetylene welding, cutting, and brazing; basic shielded metal arc welding and basic gas metal arc welding. A limited amount of out-of-position welding will be stressed. *Fall*

TECH250**\$ (3-4)**

Basic set-up and operation of lathes, milling machines, grinders, drilling machines, and shapers.; safety, machine maintenance, off-hand grinding, drill sharpening, layout, and inspection emphasized. *Spring*

TECH254**(3)**

Acquaints students with the planning and organization of technical facilities. Consideration given to space requirements, building structure, material flow, equipment needs, site location, and environment control of such facilities. *Spring*

TECH285/485**(1-4)**

Development of a skill in a given area of technology under the supervision of the instructor. Repeatable to 12 project credits. Prerequisite: Permission of instructor. *Fall, Spring*

TECH275/475**(1-4)**

Repeatable with different topics in aviation. *Arranged*

TECH294**(1-3)**

Work experience with an aviation organization or airline. A minimum of 120 hours of work required per credit. Graded S/U. Prerequisite: Permission of department. *Arranged*

TECH295/495**(1-2)**