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.

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See inside front cover for symbol code.

College success and life enrichment skills. Included are an introduction to the resources of the university, principles of critical thinking, and Christian values clarification.

See description under GTEC110. Repeatable.

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.

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-ÎŢZ% ZĨJR ZÃ BE ZĨJR % \$VU% BÇÃ IĐ ÍTÃ BE BZĨJR % \$VU% BÇÃ IĐ ÍTÃ BE BZĨJR SÃ BE BZĨJR

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 0-240 60 drnn718.16t5 ddaircraft, (6)u Sixty-five (65) SixiT/T(65) uu o

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*



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*

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*

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*

Repeatable with different topics in aviation. Arranged

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*