CURRICULUM STANDARD

Curriculum Program Title	**Aviation Systems Technology**	Program Code	**A60200**
Concentration	**(not applicable)**	CIP Code:	47.0607

Curriculum Description

The Aviation Systems Technology provides individuals with the knowledge and skills to qualify for an aircraft mechanic's certificate with airframe and/or powerplant ratings. The curriculum is approved by the Federal Aviation Administration (FAA) under 14 CFR Part 147, which governs aviation maintenance schools.

Course work includes aviation mathematics, FAA regulations, basic electricity, aircraft drawings; aircraft structures, systems, and components; aircraft engines, theory, systems, and components; and engine inspections and maintenance.

Employment opportunities exist as entry-level mechanics with air carriers, manufacturers, repair stations, fixed base operators, flight schools, and government aviation operations.

Curriculum Requirements*

[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]

I. **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

II. **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*

III. **Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	73	43	12
Other Required Hours	0-3	0-1	0-1
Total Semester Hours Credit (SHC)	**88-91****	**49-52****	**12-18**

Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.

B. **Concentration** *(if applicable).* A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.

C. **Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Aviation Systems Technology A60200**

	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
A. CORE	**73 SHC ****	**43-45 SHC**	**Not Recommended (NR)**

Required Courses:

    AVI   110   Aviation Maintenance – General   15 SHC

Required Subject Areas:

Both subject areas are required for the AAS Degree. The diploma requires the selection of one of the following subject areas (Airframe or Powerplant).

Airframe

    AVI   120   Airframe Maintenance I   12 SHC
    AVI   130   Airframe Maintenance II   9 SHC
    AVI   230   Airframe Maintenance III   7 SHC

Powerplant

    AVI   240   Powerplant Maintenance I   6 SHC
    AVI   250   Powerplant Maintenance II   15 SHC
    AVI   260   Powerplant Maintenance III   9 SHC

	AAS	Diploma	Certificate
B. CONCENTRATION *(Not applicable)*	**NA**	**NA**	**NA**
C. OTHER MAJOR HOURS *To be selected from the following prefixes:* AET, AVI, CIS, CSC and WBL *Up to two semester hour credits may be selected from ACA.* *Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.*	**0-3 SHC**	**0**	**NR**
D. OTHER REQUIRED HOURS	**0-3 SHC**	**0-1**	**NR**

*** This program is approved by the State Board of Community Colleges to exceed maximum standard hours for an associate in applied science and diploma program. [ref. 1D SBCCC 400.95(d)].*