

AVIONICS TECHNOLOGY

Associate in Applied Science Degree

LENGTH: Five Semesters

PURPOSE: Students learn to install, troubleshoot, repair, and maintain communication and navigation radios, weather radars, autopilots, on-board computers, transponders, and other equipment associated with aircraft communications and navigation. Graduates earn an Associate in Applied Science Degree in Avionics Technology.

AREA I WRITTEN COMPOSITION 3 SH

ENG 101..... English Composition I 3

AREA II HUMANITIES AND FINE ARTS 6 SH

Humanities Elective..... ART, MUS, THR, REL, or PHL..... 3

SPH 107..... Fundamentals of Public Speaking 3

AREA III NATURAL SCIENCES AND MATHEMATICS 9-10 SH

CIS 146 Microcomputer Applications 3

MTH 116 or MTH 100 Mathematical Applications or Intermediate College Algebra 3

MTH, CIS, or SCI Elective Math, Computer Science, or Natural Science Elective 3-4

AREA IV HISTORY, SOCIAL, AND BEHAVIORAL SCIENCES 3 SH

Elective ANT, ECO, GEO, HIS, POL, PSY, or SOC 3

AREA V PRE-PROFESSIONAL, MAJOR, AND ELECTIVE COURSES 54 SH

AVT 111 Avionics Theory 6

AVT 112 Avionics Lab I 5

AVT 121 Principles of Solid State 5

AVT 131 Digital Concepts 4

AVT 141 Introduction to Avionics 2

AVT 142 Electronic Communications 4

AVT 148 Microprocessors and Interfacing 4

AVT 211 Pulse and Radar Circuits 4

AVT 212 Aircraft Installation/FAA Regulations 4

AVT 213 Aviation Communications 4

AVT 214 Navigation/ILS 4

AVT 215 DME Transponders 4

AVT 216 Autopilot Aircraft Systems 4

Total Hours 75-76 SH

This is a career program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of aircraft operating, control, and electronic systems. Includes instruction in flight instrumentation, aircraft communications and homing systems, radar and other sensory systems, navigation aids, and specialized systems for various types of civilian and military aircraft.