Airframe and Powerplant Aviation Mechanics • Associate in Applied Science

OCCUPATIONAL PROGRAM
Total Credit Hours: 84
Colleague Code: AAS.AMECH
Curriculum Code: ACM 210

Recommended Course Sequence:
First Semester: AVI 103, AVI 106, AVI 107, AVI 108, AVI 109, AVI 110, AVI 199
Second Semester: AVI 111, AVI 113, AVI 114, AVI 115, AVI 116, AVI 117, AVI 118, AVI 119, AVI 120
Third Semester: AVI 121, AVI 122, AVI 123, AVI 126, AVI 127, AVI 129, AVI 130, AVI 131, EGL 104 *or* EGL 101
Fourth Semester: EGL 105 *or* EGL 102, POS 101 *or* POS 201, TEM 103, TES 121

Program Information:

- This program provides students with the opportunity to obtain the Federal Aviation Administration (FAA) Airframe and Powerplant certificate.
- Emphasis on hands-on experience with the repair and maintenance of modern engines and airframes.
- This applied science program of study must be taken in its entirety to meet degree requirements.
- This program has been articulated with Southern Illinois University Carbondale as a 2 + 2 program if taken in its entirety.

For Program Information Contact:
Business and Technologies Department at 217.786.2381 or 217.786.2406 or see an academic advisor.

Required General Education Courses (15 credits)

•	EGL 104	Career Communications I *or*	
	EGL 101	Composition I	3 credits
•	EGL 105	Career Communications II *or*	
	EGL 102	Composition II	3 credits
•	POS 101	Introduction to American Politics *or*	
	POS 201	State and Local Government	3 credits
•	TEM 103	Vocational-Technical Math	3 credits
•	TES 121	Technical Shop Physics	3 credits

Required Program Courses (69 credits)

•	AVI 103	Aviation Fundamentals	3 credits
•	AVI 106	Aircraft Electrical System	3 credits
•	AVI 107	Aircraft Cleaning and Corrosion	2 credits
•	AVI 108	Materials and Processes	2 credits
•	AVI 109	Safety, Ground Operations and Servicing	2 credits
•	AVI 110	Forms, Records and Publications	3 credits
•	AVI 111	Welding, Assembly and Rigging	4 credits
•	AVI 113	Wood Structures, Aircraft Covering and Aircraft Finishes	2 credits
•	AVI 114	Composites, Sheet Metal, Structures and Fabrication	5 credits
•	AVI 115	Aircraft Electrical Systems	3 credits
•	AVI 116	Ice and Rain Control Systems and Fire Control Systems	2 credits
•	AVI 117	Aircraft Instrumentation and Position Warning Systems	2 credits
•	AVI 118	Communication, Navigation and Cabin Atmosphere Control Systems	2 credits
•	AVI 119	Hydraulic, Pneumatic and Landing Gear Systems	2 credits
•	AVI 120	Aircraft Fuel Systems and Airframe	3 credits

		Inspection	
•	AVI 121	Propellers	2 credits
•	AVI 122	Engine Lubrication and Cooling Systems	2 credits
•	AVI 123	Engine Systems	3 credits
•	AVI 126	Engine Fuel and Fuel Metering Systems	2 credits
•	AVI 127	Engine Ignition and Electrical Systems	2 credits
•	AVI 129	Reciprocating Engines	5 credits
•	AVI 130	Turbine Engines	5 credits
•	AVI 131	Powerplant Inspection and Review	3 credits
•	AVI 199	Aviation Mathematics and Physics	2 credits
•	CAD 151	Fundamentals of Computer-Aided Drafting	3 credits

Up one level:
Aviation Programs