

CERTIFICATE, POWERPLANT

Minimum Requirements for Certificate: 31 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (http://catalog.uaf.edu/certificates-associate)		
Certificate Requirements		
Complete the certificate requirements. (http://catalog.uaf.edu/certificates-associate/summary-of-certificate-and-associate-degree-requirements/#certificatestext) ¹		
General Requirements		
AFPM F145	Basic Mathematics	1
AFPM F146	Basic Electricity	2
AFPM F147	Physics for Mechanics	0.5
AFPM F148	Aircraft Drawing	1
AFPM F149	Fluid Lines and Fittings	0.5
AFPM F150	Materials and Processes	2
AFPM F151	Cleaning and Corrosion Control	1
AFPM F152	Federal Aviation Regulations	1
AFPM F153	Weight and Balance	1
AFPM F154	Ground Operations and Servicing	0.5
Powerplant Theory and Maintenance Requirements		
AFPM F235	Aircraft Reciprocating Engines	4.5
AFPM F240	Turbine Engines	2
AFPM F271	Powerplant Inspections	0.5
AFPM F272	Powerplant Testing	0.5
Powerplant and Systems Components Requirements		
AFPM F231	Powerplant Electrical Systems	1.5
AFPM F244	Lubricating Systems	1.5
AFPM F245	Ignition Systems	2
AFPM F246	Fuel Metering Systems	2
AFPM F248	Induction Systems	0.5
AFPM F249	Powerplant Cooling Systems	0.5
AFPM F250	Powerplant Exhaust Systems	0.5
AFPM F252	Propellers	2
Combined Systems and Components Requirements		
AFPM F251	Fuel Systems	1.5
AFPM F255	Fire Protection Systems	0.5
AFPM F257	Instrument Systems	0.5

¹ As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.

Note: This is a one-year program, usually starting at the beginning of September. Entry at other times is allowed only with departmental approval. A personal background check and drug test will be required prior to acceptance into the airframe and powerplant, airframe or powerplant certificate programs.