

Report Title: Planning 005: Detailed Report on Curriculum Maps

Curriculum Map

AS Aviation Operations

Course Number	Demonstrate an understanding of basic principles of flight, aircraft design and how they are applied to current technology. The course will outline advances in propulsion, efficiency, aerodynamics, composite materials and computer integration for aircraft avionics. Thorough understanding of satellite based navigation systems and the importance to future airspace utilization. Atmospheric conditions adversely affecting aircraft performance and safety will be thoroughly analyzed.	Be able to perform an analysis of weather using advanced weather forecasting models and aviation specific weather reports. The student will learn how to interpret and utilize the weather reports essential to proper preflight decision making. Analysis of weather resources available online, via data link and through voice communications will provide the student with an overview of the vast amounts of information available to aviators.	Demonstrate the fundamental concepts of aircraft performance using the aircraft flight manual charts to determine aircraft weight and balance, take off distances, climb gradient, fuel requirements, landing distances resulting in the ability for using them to plan and manage flight in real-world applications.	The ability to solve navigation problems using aeronautical charts and plotters to calculate courses. The student will determine the effects of wind, atmospheric conditions and other factors associated with safety of flight. Calculations will be performed with the use of aviation circular slide rules, electronic aviation calculators and computer based software.	Application of aeronautical decision making to include aero medical factors, risk management, situational awareness, management of automation and resource management. Factors contributing to the error chain and ultimately to risk mitigation.
AVT-100	Level: Introduced	Level: Introduced	Level: Introduced	Level: Introduced	Level: Introduced
	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable
	Measure:	Measure:	Measure:	Measure:	Measure:
AVT-115	Level: Not Applicable	Level: Reinforced	Level: Not Applicable	Level: Reinforced	Level: Not Applicable
	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable
	Measure:	Measure:	Measure:	Measure:	Measure:
AVT-240	Level: Mastered	Level: Mastered	Level: Mastered	Level: Mastered	Level: Mastered
	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable
	Measure: Exam	Measure: Exam	Measure: Sim.	Measure: Exam	Measure: Sim.
MAT-150	Level: Not Applicable	Level: Not Applicable	Level: Reinforced	Level: Reinforced	Level: Not Applicable
	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable
	Measure:	Measure:	Measure:	Measure:	Measure:
WRT-202	Level: Not Applicable	Level: Not Applicable	Level: Not Applicable	Level: Reinforced	Level: Not Applicable
	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable	Emphasis : Not Applicable
	Measure:	Measure:	Measure:	Measure:	Measure: