

APSU AVIATION SCIENCE - FLIGHT RISK ASSESSMENT TOOL (FRAT)

(1) Flight Complexity				(4) Pilot Flight Time					Risk Assessment Values				Total	
Purpose of Flight		Day	Night	IFR	PIC/CFI =		Pilot/Student =			1. Flight Complexity				
University/Community Support		1	3	2	TOTAL	≥1500	≥1000	≥500	<500	2. Flight Planning				
Flight Training/Evaluation		1	3	2	LOCAL ≤50	1	2	3	4	3. Planning Factors				
Student Solo Flight (Note 1)		4	6	NA	LOCAL >50	0	1	2	3	4. Pilot Flight Time				
Student Solo Flight (Supervised)		2	4	NA	<100 in ACFT	Add 1 Per Pilot					5. Crew Rest			
(2) Flight Planning				(5) Crew Rest					6. Weather				Total	
Highest=		Planning Time		PIC/CFI =		Pilot/Student =			7. Lunar Data					
		>4 hours	1-4 hours	<1 hour			Hours of Rest			Total Risk Value				
Capstone Flight (Note 5)		2	4				≥10	<10	Total Risk Assessment - Day					
				Total Time Off		0	2	# Crew						
				Duty Day Total (0-8 Hours)		0		Low						
				Duty Day Total (8-12 Hours)		2		Med						
				Duty Day Total (>12 Hours)		4*		High						
(3) Planning Factors				(6) Weather					Risk Approval Authority					
Total=		Planning Time		Flt Conditions		Total=			# Crew					
		>4 hours	1-4 hours	<1 hour	≥3000/5	≥1000/3	<1000/3	<500/2	Low					
Specific		1	2	3	Day	0	2	4*	6**	Medium *				
Implied		2	3	4	Night	2	4	NA	NA	High **				
				IFR	0	2	NA	NA	Dean of CoSTEM					
(7) Lunar Data				(8) Additional Factors					Notes					
Total=		Highest=		Moon Angle Above Horizon		Additional Factors			Low (Note 4)					
						Icing			CFI, Chief Pilot, Asst Chief Pilot					
						Precipitation			Medium *					
						Turbulence			High **					
						Surface Wind			Notes					
						Thunderstorms			Note 1					
						Operating Within 10% of Max Gross Wgt			Note 2					
						OGE power within 5% of Maximum Power			Note 3					
						Confined Area			Note 4					
						Dust/Snow/Sand Landing			Note 5					
						Pinnacle Landings			Approval by Check Instructor					
						Broken of Overcast Sky Conditions								
						No Moon								
Approval Signature(s)														
PIC/Student		Name:			Signature:			Date:						
Approval Authority		Name:			Signature:			Date:						



