

Mission Concept Review (MCR)

Evaluation Rubric

Fall 2024 - EE584 Spacecraft Design and Systems Engineering

Group Name				
Mission type				
Mission Name				
Acronym				
Topic	Expected content	Evaluation	Comments from evaluator	
Mission statement → SMART mission statement defined from an identified problem	Goal(s)			
	Mission & Objectives			
Mission design → 1 ConOps, realistic mission duration and launch date	Preliminary CONOPS			
	Mission duration			
	Potential launch windows			
Systems engineering → Function tree, SMART requirements, KPI(s) to call your mission a success	Top-level functionality			
	Preliminary mission (high-level) requirements			
	Mission constraints and limitations			
	Measures of effectiveness			
Mission architecture → At least 1 trade off presented, justification of results, clearly defined assumptions	Alternative conceptual solutions			
	Payload components			
	Preliminary budgets			
	Preliminary risk assessment			
Presentation skill → On time (max 4 min), all members speak, clear and clean slides, clear talk	Presentation skill			
	MCR Grade	0		

To be completed by each evaluator:
from 1 (very poor) - 6 (excellent)

To be completed by each evaluator:
comments about the slide deck

Final grade is based on the following:

$$\text{Final MCR Grade} = \text{mission_statement} \times 0.2 + \text{mission_design} \times 0.25 + \text{systems_engineering} \times 0.3 + \text{mission_architecture} \times 0.15 + \text{presentation_skill} \times 0.1$$