

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:

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