Rubric for research proposal oral presentation in 20.109

The idea, details/methods, and outcomes categories define the core of the talk.

Category	Elements of a strong presentation
Knowledge and explanation of	• relates proposal to topics covered in 20.109 when
subject matter:	appropriate
•	• sufficiently explains concepts/ methods/etc. <i>not</i>
	covered in 20.109
Idea	• the what, why, and how (are you going to do it) of
	the idea are each clear and compelling
	the project scope is reasonable
	exhibits novelty/creativity
Overview	clear and concise description of the social and
	scientific context (and/or central question and
	significance)
Background	• sufficient for intelligent non-experts to understand
	the proposal
	describes/credits relevant prior art
Problem and Goals	• well-defined hypothesis and goals (specific research
	aims)
Details/Methods	 staged roadmap for investigation and/or helpful
	schematics as you go
	• the experiments address the central question and
	include good controls
	methods needed to understand the predicted
0	outcomes are explained, without unecessary detail
Outcomes	• show sample data if experiment works (summarize in
	tabular form, make mock graphs, show published
	 images from similar work, etc.) describe alternate assays questions and/or
	describe diterrate assays, questions, and or
Resources	 information still gained if experiment does not work consider specialized resources needed (e.g., plasmids,
Resources	cell lines, access to large/costly equipment)
	 detail is good, but not needed for every resource; nor
	is detailed budget info. required
Impact and Summary	reiterate central question and its significance to
impact and Sammary	science and society
Q&A	answers that convey understanding
	when you lack knowledge, tell how you would
	approach the question based on what you know
Overall organization of talk	content introduced in logical, easy-to-follow
	sequence
	• main points emphasized, repeated
	transition statements between ideas
Overall effectiveness of slide	slide titles convey key message

text/visuals	• good balance of text and figures
text/visuais	
	• text/figures large enough to be seen (including axis
	labels!)
	 considered use of color
	 not too many or too few slides
Overall effectiveness of delivery	• all elements of a good individual presentation
	(effective use of voice, body, and language), plus:
	• collaborative effort: partners speak for equal times,
	don't interrupt each other, take turns being "on stage"
	 overall appears rehearsed, with smooth transitions
	between speakers; talk is cohesive
	 review/preview structure of talk
	• 12' length (+/- 0.5 min)
Talking points	• main points to be made during talk (can be
	incomplete sentences)
	 well thought-out transitions
	 best work will include supporting detail, in case
	needed for Q&A