Victoria Riedinger
Bioengineering Building
Lighting/Electrical
Dr. Kevin Houser
March 30, 2016

I. Introduction (5 slides)
   a. Me
   b. Building introduction
   c. What is Bioengineering?
   d. Overall building design concept
   e. Scope of presentation
II. Overall Lighting Design Concept (1 slide)
   a. Briefly mention four designed spaces and highlight two that will be discussed
III. Lighting depth - Lobby lighting design (8 slides)
   a. Space Concept
   b. Design Criteria
   c. Equipment selection
   d. Performance & calculations
   e. Final renderings & evaluation
IV. Lighting depth – Flax Lab lighting design (8 slides)
   a. Space Concept
   b. Design Criteria
   c. Equipment selection
   d. Performance & calculations
   e. Final renderings & evaluation
   f. Daylighting integration
V. Interior louver design impact on Flex Lab (10-12 slides)
   a. Daylight performance of Flex Lab (MAE Daylighting study)
   b. Mention Schreyer Honors thesis study of Daylight shading systems
   c. Interior louver design & mention Structural Breadth study of additional load on columns
   d. Results of louver integration (MAE Daylighting study)
   e. Mechanical Breadth analysis of louver impact of mechanical loads
VI. Electrical Depth (2 slides)
   a. Describe PV analysis and design
VII. Summary of overall building design & system integration (3 slides)
   a. Tie every piece of the thesis together
   b. Acknowledgements
VIII. Questions (5-10 additional slides)

*Estimated about 39 total spreads for the presentation (not including additional slides for questions)