I. Introductions
   a. Introduce myself to the professors (One Slide)
   b. Introduce my building (One Slide)
      i. Location (Hershey, Pa.)
      ii. Owners
      iii. Size
      iv. Completion date
      v. Talk about the rest of the research park along with the owners future goals
   c. Inform audience what will be talked about throughout the rest of the presentation (One Slide)
      i. Depth – Structural Redesign
      ii. Breadth One – Green Roof addition
      iii. Breadth Two – More sustainable mechanical systems

II. Depth - Structural Redesign
   a. Actual design is steel, redesign is concrete (One Slide)
   b. Background structural information (One Slide)
      i. Loading
      ii. Building type
   c. Fall semester analysis information about the current steel frame (Two Slides)
   d. Why the concrete redesign will be helpful (Two Slides)
      i. Compare and contrast the systems to see which is the better option
         1. Cost
         2. Floor-to-Floor heights
         3. Sustainability
   e. Details of redesign (Three-Four Slides)
      i. One way slab
         1. Slab, beam, and girder depths
         2. Column sizes and layouts
      ii. Effectiveness of design
         1. Load Combinations
         2. Load Cases
      iii. Roof Design
         1. With Green Roof
         2. Without Green Roof
         3. Pros and Cons of each
III. Breadth One – Green Roof
   a. Why add a green roof (One Slide)
   b. Different types of green roofs (One Slide)
   c. Compare and Contrast possible solutions (Two–Three Slides)
      i. Lifetime cost
      ii. Sustainability
      iii. Structural Effects

IV. Breadth Two – Mechanical
   a. Current Mechanical System (One Slide)
   b. Why change the current systems (Two Slides)
      i. Achieve LEED certification
      ii. Owners future plans
   c. New system possibilities (Two Slides)
   d. Systems Comparison (Two Slides)
      i. Lifetime Cost
      ii. Sustainability
      iii. Architectural Effects

V. Conclusion
   a. Was my redesign successful, why or why not (One Slide)
   b. What changes I would have made (One Slide)
   c. What I have learned during the thesis process (Two Slides)
   d. Questions (One Slide)