11-15-11

1. Dr. Kerk intro.
   1. Going to talk about safety
   2. IE at University of Nebraska
      1. Took on project related to ergonomics and safety
      2. Four credentials
         1. Opened up many opportunities
      3. Need to keep learning after B.S.
         1. Graduate school
         2. Courses through professional societies
         3. Extra certifications
            1. All make you more qualified
            2. Recommends Certified Safety Professional
      4. Stay involved in professional societies
         1. Even after graduation
   3. Came to SD in IE department making safety classes
      1. Started safety minor ~5 years ago
      2. Mostly IE
2. Safety minor
   1. “to hold paramount the safety, health, and welfare of the public”
   2. Requirements
      1. Chem 112, physics, calculus 1, statistics
      2. IENG 331 (fall), 321 (spring), 431 (spring), PSYC 331 or POLS 407, senior design\*, electives
         1. Safety engineering, ergonomics, industrial hygiene
         2. How to identify and control hazards
         3. Graduate courses available
   3. If senior, take a single elective course
   4. Adam Piper just joined the IE with a safety minor
   5. Questions?
      1. Most classes off campus
         1. There’s a bus
         2. Working with provost
   6. Safety on your resume is huge!!!
      1. Places elsewhere get safety *science*, we get math aspect as well
      2. Especially for chemical engineers
3. Process Safety Standard
   1. 29 CFR 1910.119
      1. Three appendices
   2. Motivated by Union Carbide in Bhopal, India in 1984 and Phillips Petrochemical in Pasadena, TX in 1989
   3. OSHA works for all “processes”
   4. Process analysis
      1. Fault-tree analysis
      2. Updated every five years
4. SAChE
   1. Student certificate program
      1. List sent out to various companies
      2. Good recognition
   2. Select school and password is sdsmtstudent
   3. Test is on AIChE website
   4. CSB video room
      1. Videos of explosions and safety hazards
   5. Slide will be emailed to everyone present today
   6. Read through websites, but find answers online elsewhere
5. Dublin Dash
   1. Want poster and t-shirt designs done this semester
      1. Probably second week of January will be deadline
      2. Past designs are on shared drive