



BME 590: FUNDAMENTALS OF
ENGINEERING DESIGN

BRAINSTORMING

Salinas - Fall 2017

RULES

FOR A CONSTRUCTIVE AND FRUITFUL
BRAINSTORMING SESSION



**ACHIEVE
QUANTITY OVER
QUALITY**



**LEAVE
JUDGEMENT AT
THE DOOR**



**DON'T STOP TO
DISCUSS**



**EVERY IDEA IS
EQUALLY
WEIGHTED**

METHOD

FOR A CONSTRUCTIVE AND
FRUITFUL BRAINSTORMING
SESSION



DESCRIBE PROBLEM

- UNDERSTAND THE PROBLEM
- EXPLAIN THE PROBLEM WITH STATEMENT OF GOALS, PICTURES, ANECDOTES
- USE "WHAT" EXPLANATIONS (NOT "HOW") TO BE OPEN MINDED



NARROW PROBLEM THROUGH PROJECT DECOMPOSITION

- IF NECESSARY BREAKING DOWN PROBLEM CAN HELP BRAINSTORMING
- FOCUS ON SMALLER COMPONENTS

ROLES

PRESENTER

provides key facts about problem

introduces client's needs and problem

constraints

opens the floor for brainstorming discussion

ROLES

FACILITATOR

keeps session flowing/conversation going

involve everyone

reflect back to speaker to ensure meaning of

ideas

no judgement



ROLES

SCRIBE

**takes fast notes on each topic
notes written out for entire audience to see
and build upon
draws quickly to reiterate point being made**

FOR TUESDAY

select teammates for each role:

1. oral presenter
2. brainstorming facilitator
3. scribe



**Brainstorming session will be timed, 3 minutes for presentation and 5 for open discussion