bold indicates extensive revision

**WRITING** (Students must complete 5000 words of revised writing to receive credit in this subject)
Design based writing assignments; these use the engineering proposal/report trajectory to teach essay structure and the writing process—because the writing naturally develops in parallel with the development of the designed product.
- heat transfer white paper (500 "student" words—structure is based on extensive scaffolding)
- **design proposal I** (1250 "student" words—including additional scaffolding and revision of elements taken directly from the white paper)
- **design report I** (1750 “student” words—which include significantly revised elements of the proposal)
- **design proposal II** (1000 words)
- project II report script (500 words)

"Reading" analyses
- 2 movie response essays (750 words—“surface” reading regarding team-work & 1000 words—deeper reading based on non-verbal communication)
- product reviews—“reading” artifacts (5x250 word drafts & 1x1250 word final draft)

Experiential essays; explaining what it is to engineer and be an engineer
- 2 What Color is My Parachute 1 page narrative essays (2 x250 words)
- **myth (750 word)**

Informal writing
- journal

**PRESENTATIONS**
- class participation
- informal presentations
- oral design report on the efficacy of design I

**MEDIA**
- web presence (proposal & possible site draft)
- project II report video

**"LECTURE" TOPICS & IN-CLASS ACTIVITIES**
- brainstorming
- design—text and products
- writing: the big picture, process and product
- writing: The Science of Scientific Writing & beyond
- graphics: principles and examples
- academic integrity
- grouping logic (reductionist thinking)
- reading & textual analysis
- team formation trajectories
- poster design
- idea pitching
- oral presentations
- proposal & report structure
- story telling
- poetry
- quo vadis
- and many smaller details
READING/"TEXTS"
Each of these readings deserves comment in the journal:
• PREP article (which motivates writing workshops)
• Kishlansky on reading
• ASME ethics and author’s guidelines
• the existential pleasures of engineering (excerpts)
• the science of scientific writing
• industry communications requirements
• who’s a nerd
• boston globe on nerds
• should ohm’s law be repealed?
• assorted Petrosky
• assorted myths
• what color is my parachute (excerpts)
• in a station of the metro
• the onion
• Stagecoach
• Essays on Stagecoach
• Pogue, camera review
• case study, the OXO goodgrips

MEETINGS
• expect monthly individual meetings with the instructor