What to expect for the Abstract

USC Viterbi School of Engineering
Systems Architecting and Engineering

- **FORMAT:**
  - **Microsoft Word (or equivalent)-- PDF of WORD File is acceptable**
- **LENGTH:**
  - **Abstract should be no more than 1 page, single-spaced, in 12-point type (Times New Roman font), single column with standard margins (1" top and bottom, 1.25" left and right)**
    - **Less than ½ page is not enough of description!**
    - **This is just a suggestion for sizing purposes**
- **DELIVERY:**
  - **Abstract must be submitted via Desire to Learn (D2L) system no later than September 20, 2018 3:30 PM Pacific Time**
  - **Links for submitting the assignments will be available under the "Assignment" section of D2L (http://courses.uscden.net)**
- **GRADING:**
  - **Pass/Fail-- Required, but no letter grade given**

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- **TEXT CONTENT:**
  - **Identify which TOPIC CATEGORY you're proposing to use (see next slide), then Describe what SPECIFIC SYSTEM (or systems) within that Topic Category you're proposing to use**
    - **This description should be at least one paragraph of text**
  - **Some optional topics you may want to include:**
    - **Why did you choose this Topic and System?**
      - **What do you expect to learn in your Research or in writing your Paper?**
      - **How might this benefit your career?**
    - **What experience do you have (if any) with this Topic/System?**
    - **Where will you find your Sources? (Research material)**
      - **Do you have any material on-hand? (Descriptions, Artwork, Videos, etc.)**
    - **What is the future of this Topic/System? What's next?**

Note: Graphics and References are allowed but are NOT REQUIRED in your Abstract!

SAE 546 Research Paper Topic Categories

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- **Topic Categories:**
  - **Aerospace/Space, e.g.**
    - Space Telescopes
    - Manned Space Transport
    - Robotic Systems (including Unmanned Space Exploration)
    - Airborne Platforms (Fighter / Bomber Aircraft / Helicopter / Unmanned Aerial Vehicles)
  - **Energy, e.g.**
    - Electrical Power Grids
  - **Healthcare, e.g.**
    - Medical Health Record Data Collection, Storage, and Exchange
  - **Transportation, e.g.**
    - Passenger Aircraft
    - Automated (Self-Driving) Cars

Students should <u>not</u> propose an individual component or subsystem or process, but an entire vehicle (or system) from one of the above categories in the above list.

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- **TEXT CONTENT:**
  - **See http://users.ece.cmu.edu/~koopman/essays/abstract.html for other suggestions**

  - **That site suggests that content includes the following: (suggested ideas that are NOT required for this Abstract!)**
    - **Motivation**
    - **Problem statement**
    - **Approach**
    - **Results**
    - **Conclusions**

Questions Regarding the Abstract?

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- **If you have any question regarding the Abstract:**
  - **You may call during office hours or e-mail questions to ask SPECIFIC questions that would not be of general interest**
    - **But we prefer that you use the Discussion Boards**
  - **Please use the General Discussion Board BEFORE the Due Date**
  - **Remember that all questions and all answers will be visible to all students, so please be sure to review the Discussion Boards before submitting your abstract!**
    - **We will attempt to answer questions in a timely manner but you will likely NOT receive a quick answer!**
  - **Please do not ask for instructor or student review of draft abstracts**