1. Library Basics

- Library website address: library.wayne.edu
- Getting help: Ask-A-Librarian, chat and email
- Research guide for Engineering: http://guides.lib.wayne.edu/engineering
- WSULS YouTube channel: https://www.youtube.com/user/wsuinst/videos

2. Searching the Library Catalog (using QuickSearch)

- Searching for books/ebooks
- Using ebooks (guide: http://guides.lib.wayne.edu/ebooks)

3. DOSO - Academic Integrity: https://doso.wayne.edu/conduct/academic-misconduct

   Citations and plagiarism:
   https://owl.purdue.edu/owl/research_and_citation/using_research/avoiding_plagiarism/is_it_plagiarism.html

4. Citations examples; Google Scholar and InterLibrary Loan


5. Using an article database (PubMed@Wayne) to find articles

   - Basics of searching, limiting the search, and refining search results
   - Building a search using MESH terms
   - Finding related articles using indexing terms (subject, author, references, ...)

6. Exercise: Searching in PubMed@Wayne

   a) Build a search using either keywords or MESH terms
   b) Choose a relevant article, view the abstract, access the full text

Using ASTM Digital Library to find ASTM standards
- Basics of searching, limiting the search, and refining search results
- Other sources for standards (Interlibrary Loan)

8. Online research guides for patents:
- http://guides.lib.wayne.edu/patents
- http://researchguides.library.tufts.edu/content.php?pid=216800&sid=1802541

Planning the keyword search (brainstorming to describe the invention):
(adapted from: Michael Heydorn, USPTO-PTRC, “How to conduct a preliminary US patent search”)

<table>
<thead>
<tr>
<th>What is it?</th>
<th>truck front structure, vehicle front structure, cab front structure, body structure</th>
</tr>
</thead>
<tbody>
<tr>
<td>What does it do?</td>
<td>supports headlamps, grille, hood latch</td>
</tr>
<tr>
<td></td>
<td>attaches front body to frame (trucks)</td>
</tr>
<tr>
<td></td>
<td>resists front impact loads</td>
</tr>
<tr>
<td>What is it made of?</td>
<td>hydroformed metal tube</td>
</tr>
<tr>
<td></td>
<td>variable cross-section</td>
</tr>
<tr>
<td>What is it used for?</td>
<td>truck, car, vehicle</td>
</tr>
</tbody>
</table>

- Record as many synonyms/variations as you can think of.
- Keep good notes on your search terms to avoid duplication of work.

Keyword searching using Google Patents
- Basic: https://www.google.com/?tbm=pts&gws_rd=ssl
- Advanced: https://www.google.com/advanced_patent_search?
- When you find a relevant patent, note the USPC (296/193.06) or CPC (B62D 25/04) for future searching