

# Aircraft Systems

## AEM 691 SP:

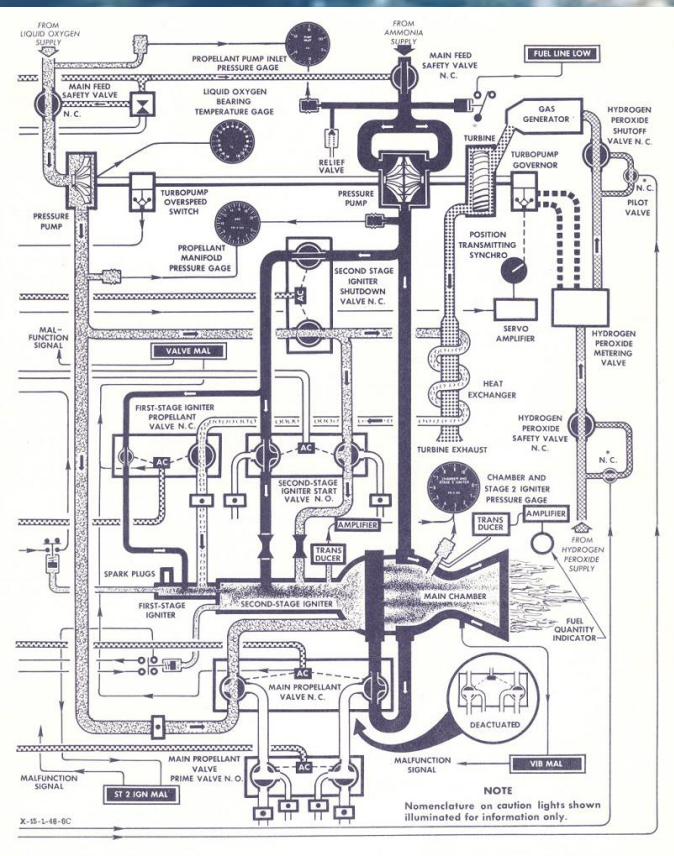
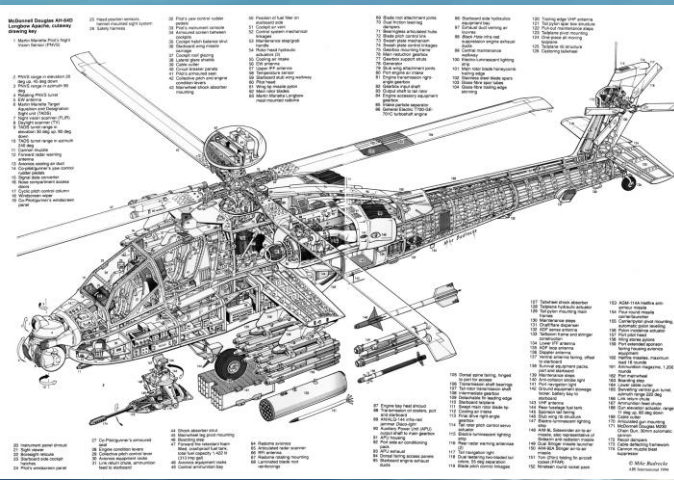
### Spring 2016

Enroll now for Spring 2016.  
This class is on a 4 year rotation; next offered in 2020!

Instructor: Charles O'Neill ([croneill@eng.ua.edu](mailto:croneill@eng.ua.edu))

Texts: *Aircraft Systems, Mechanical, Electrical, and Avionics*, Moir, AIAA  
*The YC-14 STOL Prototype: Design, Development*, Newberry, AIAA

Prerequisites: Consent of instructor or Undergraduate Engineering



Topics include:

- Flight Control Systems
- Engine Control Systems
- Fuel Systems
- Hydraulic Systems
- Electrical Systems
- Environmental Control (ECS)
- Avionics
- Mission Systems
- Certification & Regulatory Issues
- Failure Mode and Effects Analysis
- Boeing 727 Design Case Study
- Boeing YC-14 STOL Case Study
- Lightweight Fighter (LWF)
- Southern Air Museum (Birmingham, AL)