

AAE 190 Assignment 8: Concept Mapping of the Undergraduate Curriculum of the School of Aeronautics and Astronautics.

Objective: To create a concept map of the entire undergraduate curriculum in the School of Aeronautics and Astronautics. The concept map will highlight in graphical form the key ideas in each course and how those ideas are related and illustrated. The map will illustrate how concepts from one course relate to concepts in other courses. In this way, we can understand interconnections between various courses in the undergraduate curriculum.

Conduct of the Project

Phase 1: Understanding the concepts in individual courses

Creation of a detailed concept map for each individual course. This is a team activity. You need to study up on concept maps. Look at the concept map presented in class for AAE421. Interview at least one faculty member for this. Due 11/30/00 (one week from Thanksgiving). Make arrangements before Thanksgiving for the faculty interviews. You might try to catch senior aero students around Grissom Hall without an appointment. College catalog information for a course might be of some use here.

Phase 2: Understanding the interconnections between the concepts of different courses.

For each course creating a second concept map that shows the interconnections between those concepts and other courses. This is to be done in the sense of concepts required by students before taking a course (prerequisite knowledge) and how knowledge in the course supports follow-on courses. This is a team activity. Interview students (seniors are best) and faculty. This should be part of the Phase 1 interview, rather than a separate interview. Due 12/5/00, Tuesday of Dead Week.

Phase 3: Constructing one large concept map for the entire curriculum.

This will be done on one large piece of paper. It will be a class-wide activity and will be done in-class on 12/5/00-12/7/00. The results will be posted in Grissom Hall. Hopefully, we can find a way to capture this electronically.

Notes:

1. All concept maps should be prepared electronically using Microsoft Powerpoint.
2. An example for a Phase 1 concept map was presented in class for AAE421 Flight Dyn and Control.
3. It is OK if you discover imperfections in our concept organization.
4. Concept mapping resources. http://www.to.utwente.nl/user/ism/lanzing/cm_home.htm
<http://www.dc.peachnet.edu/~shale/humanities/composition/handouts/conceptresources.html>
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Team Assignments

Team	Course
1	AAE203
2	MA261
3	MA266
4	PHY 241
5	AAE204 and AAE204L
6	AAE251
7	EE201
8	MA265
9	AAE333 and 333L
10	AAE352 and 352L
11	MA304
12	ME200
13	AAE334 and 334L
14	AAE340
15	AAE364 (also called AAE464) and AAE364L (also called AAE421L)
16	AAE439
17	AAE440
18	AAE450
19	AAE451
20	AAE412
21	AAE454
22	AAE415
23	AAE416
24	AAE372
25	AAE361
26	ASE490R
27	AAE453