1. Attendance:
Aero – Jen-Ping Chen
AVN – Chul Lee
BME – Rita Alevriadou
CHE – Not present (Dave Tomasko)
CEGS –
   Civil – Chuck Moore
   Environment – Bob Sykes
CSE – Bruce Weide - Chair
ECE – George Valco
ENG PHY – Not present (Richard Hughes)
FAB – Bob Gustafson (for Alfred Soboyejo)
IWSE –
   ISE – Blaine Lilly
   WLD – Not present (Charlie Albright)
MSE – Rob Wagoner
ME – Not present (Mike Moran)
Graduate Student – Justin McKendry (Not present Shivraman Giri)
Undergraduate Student – Not present (Linda Wang, Ashley Hand)
Secretary – Ed McCaul
Guests – Burkhard von Rabenau, Peg Steele

2. The Minutes from the 2 May 2007 meeting were approved as amended.

3. Rita Alevriadou informed the committee of the recommendations from the Course Proposal Subcommittee.
   3.1. The subcommittee recommends that the course proposals for ENG 100.04, 100.16, 100.17; CSE 681; NE 605, 705 be approved. Rita Alevriadou made a motion that these course requests be approved. Rob Wagoner seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

   3.2. The subcommittee recommends that all of the course changes and new course requests associated with the Environmental Engineering BS Degree Proposal be approved. All of the course change requests are purely administrative changes that are required for creating the new degree. The new course requests consist of 693, 694, 699, and H783, all of which are standard courses for a separate program. Rita Alevriadou made a motion that these course requests be approved. Rob Wagoner seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

   3.3. The subcommittee recommends that all of the course changes and new course requests from Aero Engineering be approved. The changes are either because of the requested changes to the Aero undergraduate
curriculum or because Aero is simplifying the prerequisites to some of its courses. Rita Alevriadou made a motion that these course requests be approved. Rob Wagoner seconded the motion. The question was asked as to why it was necessary to change the prerequisites. The response was Aero wanted to drop unnecessary prerequisites that were not needed for a student to successfully complete a course. There being no further discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

3.4. The subcommittee recommends that all of the course changes and new course requests from Geomatics Engineering be approved. All of these changes are due to Geomatics wanting to eliminate courses that are no longer offered or that are no longer in the curriculum; to provide a pair of gateway courses into the major; to make certain that progress through the curriculum is properly regulated; and to remove “or permission of instructor” from all courses except those in which non-major enrollment is encouraged. Rita Alevriadou made a motion that these course requests be approved. Rob Wagoner seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

3.5. The subcommittee cannot at this time recommend that the course requests that are part of the Aviation MS in Air Transportation Systems Proposal be approved. Concurrences are needed for a number of the courses and the subcommittee would like to review the courses again once the necessary concurrences have been obtained. The subcommittee has created a table showing all of the courses and the concurrences they feel are necessary. If anyone else feels that additional concurrences are needed please let the committee secretary know by the end of the quarter. Rita Alevriadou made a motion that Aviation’s course requests be tabled. Rob Wagoner seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

4. The committee was informed that Mike Moran had stated in an e-mail to the committee secretary that Subcommittee A has not been able to do any work on the transfer credit issue and that, as stated at the committee’s last meeting, has no objections to the revised Environmental Engineering BS Degree Proposal. Rob Wagoner made a motion that the Environmental Engineering BS Degree Proposal be approved. Bob Sykes seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

5. Bob Sykes informed the committee that Curriculum Proposal Subcommittee B is recommending that the changes to the BS Aeronautical Engineering Degree be approved. (Written recommendation and proposal are attached.) Bob Sykes made a motion that the changes to the BS Aeronautical Engineering Degree program be approved. Rob Wagoner seconded the motion. There being no
discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

6. Bob Sykes presented a report from Curriculum Proposal Subcommittee B on the City and Regional Planning Degree Proposal. Bob informed the committee that City and Regional Planning would like a vote of support from CCAA as CCAA does not have approval authority over this proposal. The issues involved with creating the degree are complicated. The Department of Geography opposes it as they have a similar program. In addition, there is no nationwide clear cut location for such a degree as some universities have it in Engineering, Arts & Humanities, or Social Science. Plus, in some locations it is a BS Degree while in others it is a BA Degree. The subcommittee’s problem was that they did not know enough about the issues to make a recommendation. The floor was opened for discussion.

6.1. Burkhard von Rabenau informed the committee that the program in Geography cannot become an accredited program while the proposed program in City and Regional Planning (CRP) can become accredited and the current plans are to apply for accreditation as soon as possible. Geography’s program does not deal with zoning laws, historic preservation and a host of other items that City and Regional Planners have to deal with on a regular basis. There are a lot of other programs in the university that could potentially say that they should teach some of the courses such as Law, Economics, and Natural Resources; why should Geography be given a special status? Although many of the courses will be in CRP, the students in this program will be taking a number of courses in Geography through their directed electives.

6.2. The question was asked as to what the difference in Math was between the proposed curriculum and the current curriculum in Geography. The reply was that the students in Geography take 117 and the students in CRP will take 150. So, there is not a lot of difference there.

6.3. The comment was made that the students in CRP will be involved in planning and design versus just theory. This is similar to the difference between Engineering and Physics and is the key difference between the proposed CRP curriculum and the current one in Geography.

6.4. Based on what he learned, Bob Sykes made a motion to withdraw Curriculum Proposal Subcommittee B’s Report on the City and Regional Planning Degree Proposal. Chul Lee seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

6.5. Bob Sykes made a motion that Bruce Weide and Bob Gustafson draft a letter for the dean that would state that CCAA endorses the proposal and that the underlining reason for the endorsement is the difference between planning/design and theory. Rob Wagoner seconded the motion. There being no discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.
7. Bob Sykes briefed the committee on Curriculum Proposal Subcommittee B’s report on the Aviation MS in Air Transportation Systems Proposal (attached). While the subcommittee supports the proposal, they do have some concerns with the number of faculty that are available for the program especially with the new undergraduate track in this same area. There appear to be two major problems that need to be resolved before either the Course Proposal Subcommittee or Curriculum Proposal Subcommittee B can recommend that this proposal be approved. These problems are concurrences for the courses and an adequate level of staffing. The floor was opened for discussion.

7.1. The question was raised as to why Aviation does not get the undergraduate track going first. The response was that they want to attract more than just undergraduates to this area of study, and that most prospective grad students for the program are not OSU undergrads.

7.2. The comment was made that ISE is still reviewing the course requests and may want to have the opportunity to comment on some of them. In addition, at least one of the ISE faculty may be interested in participating in the program.

7.3. The comment was made that there may be other faculty in the college who may want to participate and this may help resolve the staffing problem.

7.4. Bob Sykes made a motion to table the Aviation MS in Air Transportation Systems Proposal until autumn quarter. Blaine Lilly seconded the motion. There being no further discussion a vote was taken: 10 approved, 0 opposed, and 0 abstentions. The motion passed.

8. Bob Gustafson informed the committee that the University Senate passed a motion reducing the minimum number of hours to graduate to 181 from 191. Programs are allowed to reduce their curriculum but not more than 5 hours of the reduction can come from the GEC. The Senate’s vote does not require anyone to change their curriculum, it just allows program to reduce their hours to graduation to 181. Arts & Science reduced their hours by taking five hours out of the GEC and five hours out of each of their majors by reducing their free electives. The Engineering GEC proposal approved by CCAA was approved by CAA but we cannot implement it as it does not include five hours out of each of our majors. However, it has been pointed out to CAA that Engineering has made some large reductions in all of our majors in recent years and they appear willing to accept that argument. Bob told the committee that he sees two possibilities. First, we as a college can go through a review process and reduce each of our majors by five hours. Second, we can present a proposal to CAA outlining the reductions we have made to our majors and asking them to consider that sufficient for us to implement a five hour reduction in our GEC. The floor was opened for discussion.

8.1. The question was asked as to whether programs would be allowed to reduce their number of hours in the future if the second option is selected. The response was yes as a program can always submit a proposal to
reduce their number of hours as long as they stay above the university minimum.

8.2. Chuck Moore made a motion that Bob Gustafson be given permission to present a proposal to CAA outlining the reductions we have made to our majors and asking them to consider that sufficient for us to implement a five hour reduction in our GEC. Bob Sykes seconded the motion. There being no further discussion a vote was taken: 8 approved, 0 opposed, and 0 abstentions. The motion passed.

9. Chuck Moore present Geomatic's request to change the Selected Core (attached). The request is to drop Geodetic Science 612, 572, 573, 574, and 575 from the Selected Core. Geomatics will still meet the requirements of the Selected Core by requiring their students to take different courses. Chuck Moore made a motion that the changes to the Selected Core be accepted. Bob Sykes seconded the motion. There being no discussion a vote was taken: 8 approved, 0 opposed, and 0 abstentions. The motion passed.

10. Chuck Moore made a motion to nominated George Valco for the position of committee chair for the 2007-2008 academic year. Bob Sykes seconded the motion. There being no other nominations a vote was taken: 7 approved, 0 opposed, and 1 abstention. The motion passed.

11. The meeting was adjourned at 11:45 AM.

C: College Faculty
CCAA File
Dear Prof. Weide:

Recommendation
Subcommittee B recommends that the proposed changes in the courses required for the BS Aeronautical Engineering degree be approved:
1. Drop Math 414(3), Aero 414(2) and Math 571(3).
2. Add Math 415(4) in place of Math 414(3). Math 415 satisfies the Selected Core requirement in Ordinary Differential Equations of the College.
3. Make Aero 580(4), which already exists, as a required course as its topics cover the applications taught in Aero 414(2) plus additional topics not covered in Math 571(3).

Rationale
The net effect is to move 2 hrs from the Math department into the major. The changes will improve student satisfaction and performance and better meet Aero’s content requirements.
To: Core Committee & College Committee on Academic Affairs  
From: Aerospace Engineering  
Re: Change in Undergraduate Curriculum  
Date: March 27, 2007  

The Department of Aerospace Engineering periodically reviews its program based on student performance among many factors. One problematic area has been the mathematical ability of our undergraduate students and in particular the applications of mathematical methods to engineering problems. It was observed that there was a disconnect between what was taught in mathematics courses and the use of this material in engineering courses taught in our department.

To remedy this problem, it was decided that a better method might be to team teach some of the mathematics and engineering material so that students could immediately apply what was taught in mathematics to engineering problems. Aero 414(2) and Math 414(3) were the result of this approach, but after seven years of this combination the results are not good. While some students seem to like this approach and do well, the majority of students are dissatisfied and their performance is worse than under the traditional system. The attached bingo sheet marked **Current** shows the present math sequence.

An additional problem concerns Math 571(3) in which it was hoped students would get the basics of matrix algebra and eigenvalues. The last topic is actually not covered and many of the topics in Math 571(3) are often not covered because of lack of time. As such, it is not really serving any useful purpose for aero students.

Based on the above observations, it was felt that it was time to revisit the acquisition of math expertise by our students. The result of this effort is shown in the bingo sheet marked **New**. The rationale is as follows:

1) Drop Math 414(3) and Aero 414(2) since they are not working and Math 571(3) since it is not serving our curriculum requirements content wise.
2) Add Math 415(4) in place of Math 414(3). Math 415 satisfies the Selected Core requirement in Ordinary Differential Equations of the College.
3) Make Aero 580(4) a required course as its topics cover the applications taught in Aero 414(2) plus additional topics not covered in Math 571(3).

It should be noted that the total Aero credit hours remain exactly the same as with the Current course sequence.
**Aerospace Engineering**  CURRENT BINGO SHEET  
2006-2007

Name: _______________________________________ Student ID: _________________________ Phone: ____________________  
New to OSU: _________ email: ____________________________@osu.edu

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<td>AAE 414 (Diff Eqn for Eng Appl)... 3____</td>
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<td>AAE 543 (Flight Vehicle Struc II).... 4____</td>
<td>AAE 581 (Num Methods in AAE) .... 3____</td>
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All AAE and Courses printed in BOLD are taught one quarter per year  
Please check On-line Course Offerings for availability of other courses

**GENERAL EDUCATION (45 hrs)**  
English & Communication Skills (10)  
- English 110 (5)  
- 2nd Writing Course (5)

Social Sciences (9) a+b, a+c, or b+c  
a._______________________( )____
b._______________________( )____
c._______________________( )____

Historical Survey (10) sequence  
_______________________( )____
_______________________( )____

Arts & Humanities (9)  
a. Literature (1 course)  
_______________________( )____
b. Visual/Performing Arts or Other Humanities (1 course)  
_______________________( )____

**ADMISSION CONDITION**  
(Does not apply to everyone)  
_______________________( )____

**SOCIAL DIVERSITY** Underlined  
(May overlap with another GEC Category)  
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**AERO ELECTIVES (9)**† 600-700 Level  
_______________________( )____ 
_______________________( )____

**TOTAL HOURS**.......................... 18

† Satisfies 3rd writing course requirement
**Aerospace Engineering**

Name: _______________________________________  Student ID: _________________________  Phone: __________________

New to OSU: _________  email: ____________________________@osu.edu

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|      | Math 254 (Calc & Anal Geom)........5____ | Math 415 (Ord & Part Diff Equa.)...4____ | AAE 580 (App of Diff Equa in AAE)4____ |
|      | Physics 133 (Waves & Quant Phy)....5____ | ME 410 (Statics)..................4____ | ME 430 (Dynamics)..............4____ |
|      |                        | MSE 205 (Intro to MSE)...........3____ | ISE 504 (Eng Econ Analysis)......3____ |

|      | AAE 542 (Flight Vehicle Struct I).....4____ | AAE 543 (Flight Vehicle Struct II)....4____ | AAE 570 (Visc Flow & Heat Trans).....4____ |
|      | AAE 520 (Flight Vehicle Dynamics)....4____ | AAE 560 (Fund of Aerodynamics)....4____ | AAE 550 (Princ Flight Vehcl Prop)....4____ |
|      | AAE 530 (One-Dim Gasdynamics).......4____ | AAE 513 (Systems Integration II)...1____ | AAE 521 (Linear Systems Eng).......4____ |
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**GENERAL EDUCATION (45 hrs)**

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Acceptance into the Aerospace Engineering major will depend on the cumulative point-hour ration (CPHR) and the secondary point-hour ratio (SPHR) upon completion of the following pre-major courses: Chemistry 121, English 110, Engineering 181,183, Physics 131,132,133, En Graph 167, Mech Eng 410, Math 151,152,153,254, and AAE 200. A minimum SPHR of 2.0 is required. Students with a CPHR of 3.0 are assured of acceptance. Formal application is accepted all quarters. Contact departmental office (BO 328) for further information.
MEMORANDUM

Date: Tuesday, May 22, 2007
To: Prof. Bruce Weide, Chair, CCAA
From: Prof. Robert M. Sykes, Chair, Subcommittee B, CCAA
Subject: Full Planning Proposal for the Master of Science in Air Transportation Systems, 1/9/2007

Dear Prof. Weide:

Recommendation

Subcommittee B recommends that the proposal for a Master of Science degree program in Air Transportation Systems be approved contingent upon Aviation securing adequate faculty staffing levels being provided in this area.

Rationale

The members of Subcommittee B have reviewed the Department of Aviation’s proposal for a Master of Science program (both Plan A and B) in Air Transportation Systems. The Committee members believe that the proposed program would be a good addition to the College’s graduate programs: it meets a need of the air transportation industry; it is academically sound; and it is likely to attract significant numbers of MS students.

However, the concern remains that the Air Transportation Systems area is broadly interdisciplinary and requires a critical number of faculty and backgrounds to treat it properly.

The Subcommittee met with Dr. Taneja, Dr. Chubb, and Dr. Lee on May 11. The proposers were forthcoming and forthright, and they displayed considerable passion for the program. The nine major sub-areas were listed for the Subcommittee by Dr. Taneja are as follows:

- Optimization Modeling (sub-areas: Aircraft scheduling, Fleet planning, Crew scheduling, Airport gates)
- Regulatory Policies (national, international)
- Finance (buy vs. lease, terms, periods, uncertainty models)
- Marketing (ticket prices, fill ratios, revenue models)
- Economics
- Airport Planning Systems
- Safety and Security
- Aircraft Manufacturing (cabins, size/types needed, in-flight entertainment…)
- Logistics and Maintenance Engineering

The Committee members have significant concerns with the level of faculty staffing of the proposed program.
First the Committee notes that a BS track in air transportation systems has just been approved by CCAA. Thus the faculty in Aviation would be required to operate a new BS track in addition to the other existing tracks, a Plan A and Plan B MS program and develop and maintain an externally funded research program. At present, Aviation has two faculty members with solid grounding in air transportation systems, Dr. Nawal Teneja (an internationally recognized expert in the area) and Dr. Chul Lee (an Assistant Prof), and a third faculty member, Dr. Gerald Chubb, having partial interest in this area; Dr. Gerald Chubb. Other faculty are mentioned in the proposal are Dr. Thomas York (who retires next month) and Dr. Gerald Gregorek (whose appointment in Aviation is 1/3 time). Aviation is also reportedly has been authorized to hire a faculty member in the air transportation systems area, and has interviewed candidates and is awaiting authorization approval to make an offer.

Even treating Marketing, Economics and Finance as related core areas that could perhaps be represented by a single faculty member, it would appear that at least five FTE tenure-track faculty would be needed to operate the BS and MS programs, particularly in view of the demands of the new BS program in the same area.

There may be creative ways to integrate Air Transportation faculty with those from other units in the College and University, or. Or, the Dean may view hiring new faculty in this area as a high priority. However, without such plans, the current staffing appears to be inadequate for a MS program of the standard expected at OSU.
17 May 2007

Ed McCaul
College Committee on Academic Affairs
College of Engineering
CAMPUS

Dear Ed:

We are recommending the following changes to the geomatics engineering program, to ensure that the program is in compliance with the College’s Selected Core Requirements.

For the Additional Science Subsection, the GS 612 class should be removed. This course has not been taught for a number of years. We recommend that GEOL 121 will replace GS 612.

For the Math and Statistics Subsection, we recommend that Stat 245 be used in the geomatics engineering program, rather than the current Stat 145 that the students are taking, so that a Probability and Statistics topic is included. We recommend replacing a technical elective course with CE 406 to the undergraduate program for a Numerical Methods topic.

For the General Engineering Subsection, please remove the GS 572, GS 573, GS 574 and GS 575 courses. These four courses were eliminated when the geomatics engineering program was revised in 2006.

With these changes the Geomatics Engineering undergraduate program should now be in compliance with the College’s Selected Core Requirements by using the following course distribution:

Subsection – Additional Science
1. Earth and Geological Sciences: GEOL 121
2. Physics: Phys 133

Subsection – Math and Statistics
3. Linear Algebra: Math 568
5. Probability and/or Statistics: Stat 245

Subsection – General Engineering
6. Computer or Information Science: GS 563
7. Programming: EG 167
8. Statics: ME 410
9. Engineering Economics: CE 570

Sincerely,

Carolyn J. Merry
Professor and Chair
Chair, Undergraduate Studies – Geomatics Engineering

CP: C. Colmer, C. Moore