

COMPUTER AIDED DESIGN AND DRAFTING TECHNOLOGY ADVISORY COMMITTEE

FOLLOW-UP MEETING

July 14, 1997

Present: Tahir Khan, Faculty
 Willie Lloyd, Director of Placement and Cooperative Education
 Dr. Carlos Olivarez, Dean, Academic and Student Services
 Tom Sawasky, Faculty
 Ruth Springer, Secretary


Date Recommended	Advisory Committee Recommendations	Follow-Up Actions
4/24/97	1. That OCC attempt to find out whether there is a need for the Automotive/Industrial Modeling Option in industry. In Process	1a. There is a need for this option, possibly in a different form. The option is training students in prototyping, not in clay modeling. 1b. At its next meeting, the advisory committee will be asked for feedback on the possibility of changing the option title to one that is more reflective of its emphasis on rapid prototyping and reverse engineering. 1c. Mr. Tahir Khan will rewrite the catalog description to include a reference to reverse engineering. 1d. Mr. Khan will pursue through the budget process the possibility of obtaining a training CMM machine to be used to show students how reverse engineering works.
4/24/97	2. That CAD 214, Kinematics, be added to the Automotive Body Design and Drafting Option. Not Approved	2. Kinematics is not an essential skill for an entry level position in body design. Students may take it as an elective or as a substitute for co-op if they do not need the co-op class.

Date Recommended	Advisory Committee Recommendations	Follow-Up Actions
4/24/97	3. That OCC explore the possibility of offering as one course the content of MEC 101, Introduction to Manufacturing Processes, and MEC 102, Manufacturing and Fabrication Practices, which is needed by a body designer. In Process	3. Ms. Ruth Springer will set up a meeting of Mr. Khan, Dr. Carlos Olivarez, and Mr. Tom Sawasky, with Mr. Steve Atma, MEC instructor, to discuss this possibility.
4/24/97	4. That a field trip/industry tour be made part of the standard syllabus for all CAD courses. In Process	4a. Field trips are currently being taken by students in CAD 215, Advanced Curves and Surfaces; CAD 260.1, Principals of Body Design; CAD 270.1, Applications of Body Design; and CAD 280.1, Vehicle Body Surface Development. 4b. Mr. Khan will explore the possibility of making an orientation field trip part of the curriculum in CAD 110, Introduction to Computer Aided Design and Drafting.
4/24/97	5. That one week in the MEC class be spent on fasteners. In Process	5. See no. 3.
4/24/97	6. That industry representatives be consulted about what kind of part students should be able to do after they finish each class, so students are learning what is needed by industry. Completed	6. This is currently being done by using adjunct faculty who are employed in the design industry to teach many of the CAD classes.
4/24/97	7. That steps be taken to provide an adequate amount of open lab time for students in all classes. That, if necessary, OCC consider the possibility of leasing training computers on Saturday and Sunday from Chrysler or another company for the use of students for open lab time. In Process	7a. The possibility is being explored of setting aside one lab to be used as a dedicated open lab, with no classes scheduled in it. 7b. The possibility is being discussed of sharing a room in the newly renovated F Building with the Computer Information Systems Program for some classes.

Date Recommended	Advisory Committee Recommendations	Follow-Up Actions
4/24/97	15. That OCC provide a forum for students to talk with people in the industry and receive career suggestions from them. In Process	15a. The Society of Manufacturing Engineers offers students such a forum on campus. 15b. Field trips in CAD 110 and in the more advanced courses will provide these kinds of opportunities (see nos. 4a and 4b).
4/24/97	16. That OCC consider the possibility of holding a yearly technology fair with industry coming in to show students what they are doing with the systems taught on campus. In Process	16. The possibility will be explored of combining this type of activity with the Tech Prep competitions for high school students in such a way that OCC students could also be included.

The next meeting of the Computer Aided Design and Drafting Technology Advisory Committee will take place on Thursday, November 13, 1997, from 4:30 to 6:30 pm in room T-6. Dinner will be served at 6:30.

Respectfully submitted,



Ruth Springer

(advw97:cadfollo.min)

Date Recommended	Advisory Committee Recommendations	Follow-Up Actions
4/24/97	8. That CAD 235, CAD Applications in Die Design, be added to the Body Design Option. In Process	8. Mr. Khan and Mr. Tom Sawasky will discuss the content of CAD 235 and DDT 105, Product Drafting, to determine whether DDT 105 might be replaced by CAD 235 in the Body Design Option.
4/24/97	9. That additional instruction in finite element modeling be added to the Computer Aided Engineering Technology Option. In Process	9. Finite Element Modeling is being taught as a pilot course during Summer 1997. Instructors and industry representatives will then meet to evaluate the course and determine the feasibility of offering such a course on a regular basis.
4/24/97	10. That a class in design simulation be added to the Computer Aided Engineering Technology Option. In Process	10. Mr. Khan is working with Mr. Victor Rhoder of Deneb Robotics to create a course in design simulation.
4/24/97	11. That instruction in Draw Mode on CATIA be included in CAD 210.1, Three Dimensional Wire Frame Design and Surfacing. In Process	11. Mr. Khan will have discussions with all the CAD 210.1 instructors. He will explore with them the possibility of changing the course to incorporate instruction in Draw Mode on CATIA.
4/24/97	12. That OCC consider the possibility of including instruction in 2D-3D space integration in the CAD program. In Process	12a. This will be addressed in a new Unigraphics course which is being developed. 12b. This will be addressed in CAD 210.1. 12c. If there is enough student interest, perhaps a separate course on Draw Mode of CATIA could be offered.
4/24/97	13. That OCC consider the possibility of teaching such concepts as plan view, projections, and planes using CATIA, rather than in manual drafting classes. In Process	13. This is not possible at this time because there are separate courses to teach these concepts. Students need to take ADT 110, Introduction to Body Drafting, before taking CAD 260.1, CAD 270.1, and CAD 280.1.
4/24/97	14. That OCC consider offering a draw class that looks at more than one system and compares systems. Not Approved	14. There is no need for a separate class to compare systems, because students learn several software systems as they progress through the program.