



This Annual update is due on March 25th of each year that your three year Program review and planning document is not due. Please email a copy of this to your Division dean, the VP of Instruction and the Academic Senate President.

1. What is the name of your Department and/or Division?

Drafting Technology / Technology Division

2. List the names of everyone who participated in developing this annual update.

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3. Based on the elements in your Annual Update Data Sheet (Provided by IRP to your dean) and goals stated in your most recent Program Review, please identify any key successes and challenges.

For academic years 2005-06 through 2007-08, the number of drafting sections offered per year decreased from 9 to 7. Only DRAF 120 and 121 are being offered in Spring 2009; however, enrollment is very strong in DRAF 121 (31 students). Retention since 2005-2006 has remained at just below 80%, below the college average of 85%. Frequent canceling of advanced sections as well as morning and afternoon sections that feed the four-semester program has hurt retention. This issue began when a fulltime faculty member retired and adjuncts were not hired as replacements.

Currently the drafting program is in the final stages of the PIV process.

4. Are you on track for meeting the goals/targets that your program identified in its most recent Program Review? If not, please explain possible reasons why. If needed, update your goal/targets based on these reason.

Because of the PIV new goals have been set. Curriculum changes/development will commence upon final approval of the program PIV. In addition, a new computer lab has to be identified and refurbished (computers, printer & furniture) since in Spring 08 the beginning lab was given to student services.

Please refer to section 6 for an in depth analysis.

5. Have you identified any new goals or projects for the program to focus on during this next year? Please explain (grants, stipends, initiatives, etc.)

See #4 and #6

6. Are there any critical issues you expect to face in the coming year? How will you address those challenges?

The following excerpt is from the Drafting PIV report. It addresses concerns that will take longer to solve than one or two semesters. The foundation of the following will commence once the PIV has been approved.

Critical Issues:

- Software and hardware must be kept current; this requires funding.
- Faculty recruitment; growing the program may require additional adjunct faculty.
- The need for surge space on campus has resulted in the loss of one of two DRAF computer labs; program requires sufficient lab space to run two classes (each using 20-30 computers) simultaneously.

Addressing the Challenges (General):

- Modify the drafting curriculum so that program is attractive to a broader range of students.
- Ensure adequate access to current versions of software (AutoCAD and Solidworks).
- Integrate model-making into the drafting curriculum
- Increase efforts in marketing, recruitment, and placement.

Specific Challenges:

Modify Curriculum

- Reorganize DRAF120 and the AutoCAD courses so that the drafting content of the current DRAF120 is incorporated into computer-based courses. Possible sequence would be (with appropriate numbers)
 - DRAF A, 4 units (3 hours lecture; 3 hours lab): 2-D (incorporates much from DRAF120)
 - DRAF B, 4 units (3 hours lecture; 3 hours lab): 2-D transitioning to 3-D (incorporates some of DRAF120)
 - DRAF C, 4 units (3 hours lecture; 3 hours lab): 3-D
- Select one or more standard text/workbook/software-guide packages to facilitate instruction of some sections by adjuncts as needed. Use of workbook allows material in current DRAF120 to be spread into AutoCAD classes.
- Add an "applications" level of courses (not all of which would be offered in any one semester or year). Most of these would have DRAF A, B, and C as prerequisite, but some (2-D focus) might require only DRAF A and DRAF B or one or two courses in Solidworks.
 - DRAF D-?, 1-4 units: applications (e.g. civil, landscape, mechanical, changes from previous software version, architecture, interior design, renovation, advanced visualization tools)
- Add a second Solidworks class to extend content beyond geometry and into physical properties.

Ensure adequate access to hardware and software

- Obtain institutional commitment to fund software updates and sufficient seats for

Specific Challenges Continued:

Integrate model-making into the drafting curriculum

- Obtain funding for a small, tabletop, "clean" manufacturing unit for each lab to allow CAD/CAM demonstrations in the classroom in each course.

Increase efforts in marketing, recruitment, and placement

- Change the name of the program and courses from drafting to something that captures (and will be captured by searches on) CAD and design.
- Emphasize the AutoCAD and Solidworks brands in the marketing and recruitment effort.
- Update the program website to reflect current courses and certificates.
- Develop an attractive brochure that reflects the (to be) modified course offerings.
- Consider promoting the program (with new name) on KCSM, Peninsula TV, and elsewhere.
- Pursue concurrent enrollment students, especially at high schools without drafting/CAD programs.
- Consider scheduling of classes to promote concurrent enrollment.
- Develop transfer articulation agreements with CSU schools offering CAD/Drafting/Document Control concentrations as part of an Industrial Technology or Industrial Design major.

7. Student Learning Outcome and Assessment focus for this year:

- a. Academic areas: Identify at least one course SLO in on which to focus. Describe the assessment strategies you will use and your method of reflection and documentation for this cycle.

SLO: Edit sketched objects using commands, standardized drawing conventions.

Using a timed drawing quiz, the instructor will analyze and evaluate the results and then revise the curriculum accordingly.

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