**Date:** 2015-2016 **Name of Administrative or Educational Support Unit:** Computer Aided Drafting and Design

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**Mission:**

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| Collin College’s Computer-Aided Drafting and Design Program is designed to impart within successful students a fundamental knowledge of Computer-Aided Drafting and Design. Throughout the program students are intellectually challenged to learn the most up to date CADD standards and new technology to become workforce ready. A fundamental component of the CADD program is the development of skill sets, abilities and behaviors that mold the professional character that our Advisory Board Members seek in potential employees. |

**PART I: Might not change from year to year**

| A. Outcomes(s)  Results expected in this department/program | B. Measure(s)  The instrument or process used to measure results | C. Target(s) The level of success expected |
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| |  | | --- | | Create a set of part and assembly drawings using automated Computer-Aided Drafting Software. (DFTG 1305- Technical Drafting) | | |  | | --- | | Final CAD Project rubric in DFTG 1305 | | |  | | --- | | S**tandard:** Min. 70% on Assessment | |
| |  | | --- | | Create and use a customized automated Computer-Aided Drafting Software to produce Documents and Models (DFTG 2332- Advanced Computer-Aided Drafting) | | |  | | --- | | Final Model Project rubric in DFTG 2332. | | |  | | --- | | S**tandard:** Min. 70% on Assessment | |
| Write programs to enhance capabilities of automated Computer-Aided Drafting programs in the CAD system. (DFTG 2336- Computer Aided Drafting Programming) | Final Programming Project rubric in DFTG 2336. | |  | | --- | | S**tandard:** Min. 70% on Assessment | |
| Create a set of floor plans for a commercial building using 3D software. (DFTG 2328- Architectural Drafting-Commercial) | Final Commercial Construction Project Plan rubric in DFTG 2328 | |  | | --- | | S**tandard:** Min. 70% on Assessment | |
| Create a set of assembly drawings using 3D Computer-Aided Drafting Software. (DFTG 1333- Mechanical Drafting) | Final Detail Assembly Project rubric in DFTG 1333 | |  | | --- | | S**tandard:** Min. 70% on Assessment | |

**PART II: For academic year 2015-2016 (enter year i.e. 2011-12)**

**From Part I**

| A. Outcomes(s)  Results expected in this department/program | D. Action Plan Years 5 & 2  Based on analysis of previous assessment, create an action plan and include it here in the row of the outcomes(s) it addresses. | E. Implement Action Plan  Years 1 & 3  Implement the action plan and collect data  *Raw data need not be submitted, but should be maintained in program office through next Program Review* | F. Data Results Summary  Years 2 & 4  Summarize the data collected | G. Findings  Years 2 & 4  What does data say about outcome? |
| --- | --- | --- | --- | --- |
| Create a set of part and assembly drawings using automated Computer-Aided Drafting Software. (DFTG 1305- Technical Drafting) | |  | | --- | |  | | *Collect the data* | Standard of 70% met. Data is available in division office or electronically by discipline lead. | The students are successful in this outcome. No action at this time. |
| Create and use a customized automated Computer-Aided Drafting Software to produce Documents and Models (DFTG 2332- Advanced Computer-Aided Drafting) | Evaluate the SLO’s of DFTG2332 and DFTG2336 to see how to combine the two courses into a single four Credit Hour course. This will integrate the content of these two courses and assist with the reduction of the AAS degree to 60 Semester Credit Hours.    *The curriculum for the combined new course DFTG2432 was created and worked on by full time faculty with the assistance of an associate faculty who is a programmer in industry* | Implement the action plan and collect data | |  | | --- | |  |   DFTG2432 ran for the first time in 201610(Fall15). The data was collected on the 2 part project and was evaluated. Parts 1: Student created a booklet one how each of the different programs worked and successfully ran the files/programs.  Part 2: They wrote a new program and successfully ran it. Students in this first section that ran met the standard 70%. | The data showed the student relied on notes. A suggestion might be to add during a review a summery definition sheet of the programs with a short video/tutorial of how each of the programs are run. This will help in the troubleshooting when the program does not run successfully. |
| Write programs to enhance capabilities of automated Computer-Aided Drafting programs in the CAD system. (DFTG 2336- Computer Aided Drafting Programming | Evaluate the SLO’s of DFTG2332 and DFTG2336 to see how to combine the two courses into a single four Credit Hour course. This will integrate the content of these two courses and assist with the reduction of the AAS degree to 60 Semester Credit Hours.  *The curriculum for the combined new course DFTG2432 was created and worked on by full time faculty with the assistance of an associate faculty who is a programmer in industry* | Implement the action plan and collect data | DFTG2432 ran for the first time in 201610(Fall15). The data was collected a 2 part projects was evaluated. Parts 1 Student created a booklet one how each of the different programs worked and successfully ran the files/programs.  Part 2 they wrote a program and successfully ran it. Students in this first section that ran met the standard 70%. We will continue to collect date when the next section runs. | The data showed the student relied on notes. A suggestion might be to add during a review a summery definition sheet of the programs with a short video/tutorial of how each of the programs are run. This will help in the troubleshooting when the program does not run successfully |
| Create a set of floor plans for a commercial building using 3D software. (DFTG 2328- Architectural Drafting-Commercial) |  | *Collect the data* | Standard of 70% met. Data is available in division office or electronically by discipline lead | The data showed student were weak in the Final Oral Presentation of the Project. Adding a short lecture from the speech department may help the student be more successful in oral presentations. |
| Create a set of assembly drawings using 3D Computer-Aided Drafting Software. (DFTG 1333- Mechanical Drafting) |  | *Collect the data* | Standard of 70% met. Data is available in division office or electronically by discipline lead. | Data suggests more 3D prints for the student to use in the assembly process. |