

CAD - Tool & Die Design Option

Summary of Program Assessment Findings

2/25/2009 to 2/25/2010

Catalog Description

This program option prepares students to use the computer as a tool in engineering, analysis, design, machine tool, robotics, industrial technology and manufacturing systems. Students will apply knowledge of systems, software configurations and design principles in solving increasingly complex design problems involving metals, plastics and composites. Reverse engineering and rapid prototyping further enhance the learning experience of students in this program.

The Tool and Die Design option includes the principles and concepts of tool, fixture, and die design. Upon completion of this program, graduates will be prepared for employment in engineering and manufacturing design industries, or may transfer to a four-year institution. Please see an OCC counselor for details.

Within this timeframe:

- 3 Benchmark(s) scheduled to be assessed**
- 3 Benchmark(s) assessed**
- 0 Benchmark(s) not assessed**

Note: The following pages reflect findings for Benchmark(s) assessed.

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Learning Outcome

Students will successfully develop designs relating to Die Design.

Benchmark

65.1A 80% of the students complete functional Die design with 80% accuracy.

Findings	Benchmark Met?	Planned Change	Assessment Date	Status
Fourteen projects/assignments relating Die Design were done in CAD 2351 class using UGNX software. The assessments show that 85.71% met the benchmark. The data depicts that students have acquired the knowledge to successfully develop designs relating to Die Sets. The above results show that the delivery and learning is successful and therefore would not require a change at this time.	Yes	No Modifications	1/1/2010	New

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Learning Outcome

Students will successfully develop designs relating to Tool Design.

Benchmark

65.2A 80% of the students will complete functional tool designs with 80% accuracy.

Findings	Benchmark Met?	Planned Change	Assessment Date	Status
Students took 14 quizzes and did 10 projects/assignments relating to Tool Design. The data shows that 81.8% of the students met the benchmark and were able to successfully develop designs relating to tools and fixtures. The above results show that the delivery and learning is successful and therefore would not require a change at this time.	Yes	No Modifications	1/1/2010	New

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Learning Outcome

Students will develop analytical skills to appropriately apply design techniques to work setting.

Benchmark

65.3A 80% of students will achieve a least 70% on the Projects.

Findings	Benchmark Met?	Planned Change	Assessment Date	Status
Eighteen students were assessed in CAD 2301 & CAD 2351 for analytical skills. The assessment feedback shows that 88.8% of the students met the benchmark. The results show that delivery and learning is very successful and therefore would not require a change at this time. Students will be assessed again using the same benchmark.	Yes	No modifications.	1/1/2010	New