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Reviewer: **Dr. Marc Tarplee**

## **2008-2009 IE OUTLINE**

### **MECHANICAL ENGINEERING TECHNOLOGY**

**AND**

### **ENGINEERING GRAPHICS TECHNOLOGY**

#### **MISSION/PURPOSE**

> In compliance with the York Technical College mission of offering state of the art high quality technological education, Mechanical Engineering and Engineering Graphics Technology programs provide opportunities of training in the areas of computer aided design (CAD) and computer aided manufacturing (CAM) of mechanical products and structures, manufacturing operations and principles and coordination between CAD and CAM as well as applications engineering, technical sales and customer service.

#### **DEPARTMENTAL GOALS:**

In light of the divisional goals for the current academic year, the following are the departmental goals:

1. Improve fall-to-fall retention for MET and EGT students. Engage freshman and senior students in critical thinking activities both in lecture and laboratory classes. This emphasizes of student achievement through hands-on classroom activities. *A College-wide goal* established by the President (a multi-year goal).
2. Maximize student success by engaging students in the classroom and in the laboratory exercise. *A College-wide Goal, established by the President.*
3. Diversify curriculum by offering CAD instructions introducing new software such as SolidWorks into the program (a multi-year goal.)

## **EXPECTED RESULTS/OUTCOMES**

>A fall-to-fall retention gain by 10%. Current retention is about 55% and target retention rate is expected to be at 65%.

>Higher success of students will be demonstrated by higher graduation and higher retention

>New SolidWorks software will be purchased and introduced in the curriculum for instructions.

## **MEANS OF ASSESSMENT**

1. Retention numbers will be obtained from the College data coordinator
2. Surveys: online, paper and pencil, focus group interviews
3. Professional development of instructor for teaching SolidWorks.

## **STATEMENT OF IMPACT**

(This section to be completed in July 2009)

Fall registration rush indicates a trend in higher fall-to-fall retention for both EGT and MET programs. Actual numbers won't be available until September 2009. EGT and MET faculty have put forward significant effort in visiting local area high schools talking to seniors and inviting them to study engineering technology. Department faculty have consistently used DATATEL mnemonic "XA23" to follow up with the first time freshmen who have been accepted to the college but have not yet registered. These efforts by the faculty have improved the overall enrollment and fall-to-fall retention.

During the academic year 2008-2009, EGT program has graduated a total of 13 students, and MET program has graduated 11 students. The graduation numbers are very significant considering the fact that MET program was placed on probation in 2007 due to low graduation rates.

Based on interest of the employers and students SolidWorks is now a part of the EGT/MET curricula. In December 2008, 30 seats of SolidWorks software was procured and placed on the server for instructional use. This software is being shared with the 3D System. Ms. Sherlock, an EGT/MET instructor, has received one week training to incorporate and teach SolidWorks into the EGT/MET curricula.