SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: MET-101 Department: Mechanical Engineering Technology

Course Title: Introduction to Mechanical Engineering Technology

Semester: Fall Year: 2016

Objectives/Competencies

| Course Objective | Competencies |
|---|--|
| Demonstrate an intermediate level of knowledge of engineering drawings. | Line conventions pertaining to print interpretation. Title blocks & parts lists. Geometric terms and conventions. Multiview drawings Sections views Auxiliary views Screw thread representation Dimensioning Tolerancing Machining specifications & drawing notes. Surface Texture Symbols Drawing revision systems Detail and assembly drawings Welding prints |

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| Course Objective | Competencies |
|---|---|
| Demonstrate the ability to inspect machined parts by using engineering drawings to determine inspection points. | Interpret an engineering drawing for dimensional accuracy. Use basic measurement devices such as rulers Use traditional measuring devices such as dial calipers and micrometers. |
| 3. Demonstrate the ability to present data such as formula outputs and graphs in Excel. | Solve algebra problems Solve trigonometry problems Use Excel for problem solving. |
| 4. Demonstrate team work, writing and presentation skills by creating a 3D printed project. | Demonstrate computer software basics: (systems, applications, and productivity) with respect to getting a file from conception to the 3D printer. Learn to work in a team. Demonstrate written and oral presentation skills |