

# **Master Course Syllabus**

**Course Title:** Industrial Mathematics

Course Code: TECM 1001

**Course Instructor:** Terry Winkelmann

## **Purpose:**

This course is designed to teach students how to utilize applicable math applications for the production of pieces derived from blueprints.

# **Course Description:**

This comprehensive 48 hour class will provide the student with class room instruction and lavatory application applying the necessary math to produce part pieces from blueprints.

# **Learning Outcome:**

After completing this lesson the student will be able to:

- Define a fraction
- Recognize shop fractions
- Express a fraction in different but equal forms
- Read a fractional scale

After completing this lesson the student will be able to:

- Determine which operations require a common denominator
- Add, subtract, multiply, & divide fractions and mixed numbers with and without a common denominator
- Use a calculator with fractional capability

After completing this lesson the student will be able to:

• Add, subtract, multiply, & divide decimals

After completing this lesson the student will be able to:

- Identify unilateral, bilateral, & basic dimensions
- Determine maximum and minimum dimensions
- Determine allowable tolerances

## **Pre-requisites:**

None

## **Required Immunization:**

None

#### **Credit Hours:**

No credit hours are given for this course; the class is comprised of 48 contact hours

## Materials required for this course:

**Books:** Unit I "Basic Print Reading" of the Precision Measurement for Machinists Student's Guide, Produced by: Master Task Training Systems a Division of V-TIP, Inc. Rockford, Illinois

#### **Course Structure:**

- Classroom Lecture with CD Rom
- Classroom Skills and Demonstrations
- Lavatory application

#### **Attendance Policy:**

To receive a Certificate of Completion, participants must have 100% attendance.

#### **Grade Requirements and Evaluation Procedures:**

The lesson plan and class schedule informs participants of scheduled topics. As a machinist participant, your success in this class requires you to participate in both classroom and hands-on application of features in producing parts from blueprints.

## **Final Assessment Appeal Policy:**

As per Blinn Workforce Education policy and, if applicable, the policy is included in the Blinn College student handbook, as well as the website.

## **Civility Statement:**

Members of the Blinn College community, which includes faculty, staff and students, are expected to act honestly and responsibly in all aspects of campus life. Blinn College holds all members accountable for their actions and words. Therefore, all members should commit themselves to behave in a manner that recognizes personal respect and demonstrates concern for the personal dignity, rights, and freedom of every member of the College community, including respect for College property and the physical and intellectual property of others.

If a student is asked to leave the classroom because of uncivil behavior, the student may not return to that class until the student arranges a conference with the instructor; it is the student's responsibility to arrange for this conference.

# **Policies and Procedures:**

All students are required to adhere to the policies of Blinn College. These policies are listed in the Student Handbook. A copy of the handbook is available to you at the Office of Workforce Education located at 301 Post Office Street, Bryan, TX 77805.