

WESTERN ILLINOIS UNIVERSITY  
Department of Engineering Technology – 135 Knoblauch Hall  
College of Business and Technology

MET 363      Fall 2009

Geometric Dimensioning & Tolerancing (GD&T) and Metrology

Catalog Description (3)

An introduction to the development and practices of dimensional control of industrial drafting as specified by the ANSI standard as well as the study and application of precision measurement in manufacturing.  
2hrs. lect.; 2hrs. lab.

Class/Lab Time and Place

Sec 001    3:00 – 5:00 MW KH B36 / KH B27

Instructor:    Dr. Brent Payne  
Office:        B38 Knoblauch Hall  
Office Phone: 298-2385  
Home Phone:  456-3511  
e-mail:        mfbap@wiu.edu

Office Hours:

Mon    2-3

Tues   2-3

Wed    10-12

(or by appointment – call or email)

Prerequisites:

ENGR 105 and ENGR 261 or permission of instructor.

Text:

Geometric Dimensioning and Tolerancing: Applications and Inspection, Griffith, 2<sup>th</sup> edition

Objectives (the student will be able to):

1. Interpret geometric dimensions & tolerances for inspection
2. Fixture and measure GD&T call outs
3. Read precision measuring instruments to their level of accuracy
4. Use proper measuring techniques to obtain precise measurements
5. Measure using computer coordinate measuring machines
6. Measure using an optical comparator

Attendance Policy:

Class and Lab attendance is required. If a student is absent for any reason, it is his/her responsibility to gain an understanding of the missed information or experience. It is the student's responsibility to contact the instructor upon their first return to class after an absence. Scheduled lab activities **CANNOT** be made up at alternate times.

Exam/Quiz Policy:

Exams and Quizzes will be administered during the semester. Exam times will be announced in advance. Scheduled Quizzes and Unannounced (Pop) quizzes will also be administered as the instructor determines the need. No make-up exams or quizzes of any kind will be given unless written notification of an absence is given to the instructor prior to the exam or quiz and documentation is provided by your doctor or University Health Services upon return to class. A grade of "0" will be recorded for a missed exam or quiz.

### Late Assignment Policy:

Assignments are considered late if they are not turned in when requested by the instructor. Unless a student notifies the instructor (in writing) of his/her intent to be absent prior to the due date of an assignment, the assignment will be considered late. For each school day (not class period), an assignment is turned in late it will be penalized by the loss of 10% (plus errors or mistakes). Assignments more than 3 school days late will **NOT** be graded.

### Lab Cleanup Policy:

Each student is responsible for keeping the laboratory clean. This includes but is not limited to returning tools and machining supplies to their proper locations after use, cleaning chips from the machines, and sweeping the floor. Any student who does not assist in keeping the lab clean and organized will be penalized up to 25% on lab assignment grades.

### Grading:

90-100% = A    80-89% = B    70-79% = C    60-69% = D

59% & below = F

### Special Course Costs:

None

### Safety Glasses:

Each student will be required to obtain and wear approved safety glasses at all times while in the Metals/CNC lab. Students will not be permitted in the lab without approved safety glasses.

## **Access & Disabilities**

*In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. For the instructor to provide the proper accommodation(s), you must obtain documentation of the need for an accommodation through Disability Support Services and provide it to the instructor. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Support Services at 298-2512 for additional services.*

If you have emergency medical information to share with me, if you need special arrangements in case the building must be evacuated, or if you need accommodations in this course because of a disability, please make an appointment with me as soon as possible. My office location and hours are at the top of this syllabus. If you plan to request disability accommodations, you are expected to register with the Disability Support Services (DSS) at 298-2512

## **Rules for Giving an Incomplete**

WIU policy – A temporary symbol of I (Incomplete) for a course may be given only when a student, due to circumstances beyond his or her control, has been unable to complete the course requirements within the official limits of the term. The circumstances must be documented to the instructor's satisfaction.

## **Academic Integrity**

### **Preamble**

Western Illinois University, like all communities, functions best when its members treat one another with honesty, fairness, respect, and trust. Students have rights and responsibilities (<http://www.wiu.edu/provost/students/>) and students should realize that deception for individual gain is an offense against the members of the entire community, and it is the student's responsibility to be informed and to abide by all University regulations and policies on Academic Integrity.

Plagiarism, cheating, and other forms of academic dishonesty constitute a serious violation of University conduct regulations. Students who engage in dishonesty in any form shall be charged with academic dishonesty.

It is a duty of faculty members to take measures to preserve and transmit the values of the

academic community in the learning environment that they create for their students and in their own academic pursuits. To this end, they are expected to instill in their students a respect for integrity and a desire to behave honestly. They are also expected to take measures to discourage student academic dishonesty, to adjust grades appropriately if academic dishonesty is encountered, and, when warranted, to recommend that additional administrative sanctions be considered. Grading policies are the exclusive prerogative of the faculty; administrative sanctions are under the authority of the Director of Student Judicial Programs. This document provides policies and procedures to be followed when academic dishonesty is encountered.

### **Definitions of Academic Dishonesty**

The following definitions and examples are not meant to be exhaustive. The University reserves the right to determine, in a given instance, what action constitutes a violation of academic integrity. (See [www.wiu.edu/policies/acintegrity.php](http://www.wiu.edu/policies/acintegrity.php) for complete descriptions of the following topics:

1. **Plagiarism**
2. **Fabrication and Falsification**
3. **Cheating**
4. **Complicity in Academic Dishonesty**
5. **Abuse of Academic Materials**
6. **Multiple Submissions**

### **Reporting Academic Dishonesty**

All members of the University community share the responsibility and authority to challenge and make known acts of apparent academic dishonesty. Any student, faculty member, or staff person who has witnessed an apparent act of student academic dishonesty, or has information that reasonably leads to the conclusion that such an act has occurred or has been attempted, has an ethical responsibility for reporting said act(s). Confronting and reporting academic dishonesty can be done in a variety of ways, and people should choose the manner most appropriate for the circumstances. Acts of apparent academic dishonesty that occur in the classroom should be reported directly to the course instructor, and/or the course instructor's Department Chair, and/or the instructor's College Dean. The Council on Admission, Graduation, and Academic Standards (CAGAS) or the Graduate Council will not accept or act upon anonymous reports, but will hold in strict confidence the identity of any person reporting a suspected instance of academic dishonesty, unless that person consents to having his/her identity revealed.

### **Resolution of Problems**

Should a problem occur, students should speak to their instructor first. If the problem is not resolved, meet with the chair of the department. If the problem continues to be unresolved, go to the College of Business and Technology's Dean.

Students should observe the following sequence for the resolution of problems:

**Student --- Instructor --- Chairperson --- Dean**

**NOTE: This syllabus is subject to change with verbal notification.**