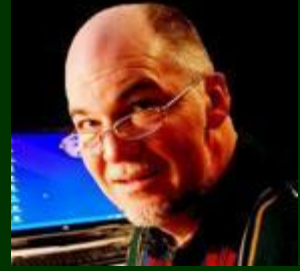




## Course Preview Page



### **CAD231: Geometric Dimensioning & Tolerancing (2 Credits)**

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#### **Course Catalog Description**

This course includes an in-depth study of the international graphic language of Geometric Dimensioning and Tolerancing for drawings that come from or go to other countries. The conventions discussed in this class apply to how machine drawings are prepared for international understanding. Emphasis is placed on placement of datums, dimensions, recognizing and interpreting symbols, calculating tolerances and virtual conditions. Prerequisites: CAD111 or instructor consent.

#### **Information Specific to This Online Course**

This course is a very beneficial course for students of engineering and manufacturing and should transfer to most reputable colleges of same. This subject is widely popular all over the world. Caterpillar Tractor was the first company to adopt this standard in our area of Illinois.

Students of Kishwaukee College must be sure that prerequisites have been met before taking this course. Students of other institutions should make sure this course will transfer before registering for it.

Students may complete their drawing assignments using either CAD or board drafting methods. CAD drawings are submitted electronically as DWF (Autodesk) files. Board drawings must be scanned and submitted as either GIF or JPG files.

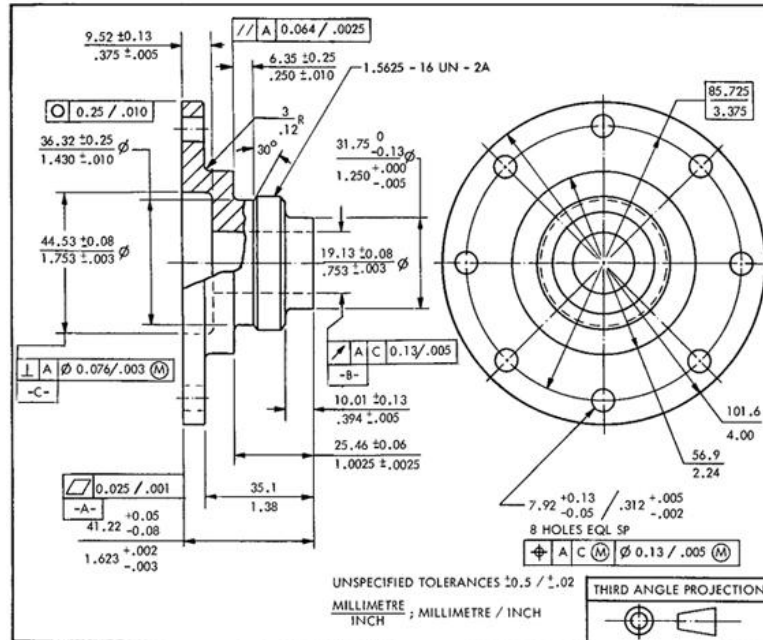
This online course may be accomplished in any one or all of three learning methods:

- Students may take the course entirely online, never coming to campus.

- Students may take the course attending classes on campus twice per week for the second 8 weeks of the semester.
- Students may do a combination of both of the aforementioned.

## What This Course is All About

This course is about the exploration of ASME Y14.5-2009 dimensioning and tolerancing standard.



An example of the use of the standard is given in the drawing above.

## Required Computer Hardware and Software

You should have a late model computer running the latest operating system with a high speed Internet connection.

A PDF file listing suggested computer specifications for CAD system computers which are also suitable for online course attendance can be found at the bottom of the CAD program website homepage at:

[www.KishwaukeeCollege.edu/cad](http://www.KishwaukeeCollege.edu/cad)

Students who do not have their own computer may use computers with CAD software and Internet access on campus in rooms A-345 or A-415 of the college. These computers are also connected to the Internet for online course attendance.

Students using CAD drafting methods will need to have a CAD program installed to their computer.

Students using board drafting methods will need to have a scanner connected to their computer.

### Admission, Registration and Attendance

Students should use the Admissions button to become a student of the college following the admission procedure.

Students should use the KishSOS button to register for courses.

Students should use the Blackboard button to login to the course.

All three of these buttons are located at the bottom of the CAD program website homepage at:

[www.KishwaukeeCollege.edu/cad](http://www.KishwaukeeCollege.edu/cad)

### Instructor's Name and Contact Information

Mark Schwendau  
Kishwaukee College  
CAD Technology  
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### Instructor Bio

Mark has taught drafting and CAD for 35 years in all levels of education; High school, area vocational center, community college and university. He holds a Bachelors degree in Industrial Education and a Masters degree in Industrial Management from Northern Illinois University. He holds a 6-12 Illinois teaching certificate.

Mark has written 6 books in the subjects of drafting, CAD, and education for employment. He has also written numerous trade journal articles and sits on Tech Directions (formerly School Shop) Editorial Advisory and Peer Review Boards. His most recent book is titled Descriptive

**Geometry: In Pencil and Pixels.** He developed and wrote this book to allow instruction of the subject both in CAD and online.

**Mark has appeared on television promoting technology education 6 times in the Chicago and Rockford television markets. He has won numerous teaching awards including two honorable mentions in the ISBE's "Those Who Excel" teaching awards program where he was twice ranked as one of the top 18 teachers in the state as a runner up for Illinois Teacher of the Year. The two awards he is most proud of were when he was selected as the Outstanding Drafting Teacher of the year in 1990 by the I.D.E.A. and when he was selected as NIU CEET's Outstanding Alumni of 1991.**

### **Further Information**

**Additional information can be found on the CAD program website. The instructor's office hours are on his faculty page. The course syllabus is on the STUDENTS page.**