



WICHITA STATE
UNIVERSITY

Department of Industrial, Systems & Manufacturing Engineering
IME 222 L - Engineering Graphics
Spring - 2018

Instructor:	Vishakh Vijayan
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Preferred method of contact	Email
Classroom:	EE 340,
Days/Time:	R 09.00 am -11:55 am
Prerequisites:	Math 123 - Trigonometry, or equivalent

How to use this syllabus

This syllabus provides you with information specific to this course, and it also provides information about important university policies. This document should be viewed as a course overview; it is not a contract and is subject to change as the semester evolves.

Academic Honesty

Students are responsible for knowing and following the Student Code of Conduct http://webs.wichita.edu/inaudit/ch8_05.htm and the Student Academic Honesty policy http://webs.wichita.edu/inaudit/ch2_17.htm.

[If your department or college has a policy on academic honesty, insert a link here. Also, be sure to specify which penalties you will pursue under the above policies when you discover cases of academic dishonesty.]

Course Description

This course will provide an opportunity to learn the basics of engineering graphics as a tool for communicating design ideas while utilizing computer software as the drawing instrument. The course includes a study of basic spatial relationships involving orthographic projections, auxiliary views, and isometric views. Aspects of design implementation such as dimensioning, tolerancing, sectional views, and working drawings are also included. Laboratory experiments utilizing computer graphics software provide reinforcement for theories and concepts.

Definition of a Credit Hour

Example for 3 credit hour class:

Success in this 3 credit hour course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction and preparation/studying or course related activities for a total of 135 hours.

Go to:

<http://webs.wichita.edu/?u=academicaffairs&p=/definitionandassignmentofcredithours/> for the policy and examples for different types of courses and credit hour offerings.

Measurable Student Learning Outcomes

General Education Objectives:

- Think critically, independently and in groups
- Employ analytical reasoning and problem-solving techniques
- Read, write and speak effectively using engineering graphics language

Course-Specific Objectives:

- Ability to produce 2-D orthographic projections, section and auxiliary views, and isometric representations/working drawings of geometric shapes/mechanical parts
- Annotate produced drawings as per current ASME/ISO standards
- Ability to appropriately represent any given geometric shape or mechanical product
- Apply fundamentals of engineering graphics using CAD software

Required Texts/Readings Textbook

The textbook for this class is “Modern Graphics Communication, **4th Edition**,” by Frederick E. Giesecke et al., which you can buy at the University book store.

Other Equipment/Materials

Flash Drive to save the day’s work.

(The documents stored in the laboratory computer will be deleted upon logging off)

Class Protocol

- Everyone must turn in her or his own homework.
- Academic misconduct may result in failing grade and reporting to the Department/College/University levels.
- Cell phones should be either switched off or switched to silent mode before entering the class.

Grading Scale

Final course grades will be based on the following point distribution:

Assignments	240
Participation	100
Term Project	500
Midterm Exam	160
TOTAL	1000

Points	Letter Grade	Grade Points	Interpretation
900.00 – 1000	A	4.00	The A range denotes excellent performance
870.0 – 899.9	A-	3.67	
830.0 – 869.9	B+	3.33	
800.0 – 829.9	B	3.00	The B range denotes good performance
770.0 – 799.9	B-	2.67	
730.0 – 769.9	C+	2.33	
700.0 – 729.9	C	2.00	The C range denotes satisfactory performance
650.0 – 699.9	C-	1.67	
600.0 – 649.9	D+	1.33	
550.0 – 599.9	D	1.00	The D range denotes unsatisfactory performance
500.0 – 549.9	D-	0.67	
Less than 500.0	F	0.00	F denotes failing performance

WSU uses a +/- grading scale for final grades and to calculate grade point averages. In this class, grades are assigned according to the following chart. (Note: Other classes might assign grades differently: Be sure to understand the different grading scales in all your classes.)

Assignments

Laboratory assignments are to be submitted through Blackboard, by midnight, 7 days after the assignment is given.

Undergraduate vs. Graduate Credit (for 700 level courses)

Undergraduate students enrolled in 700 level courses will receive undergraduate credit (not graduate credit) unless they have a previously approved senior rule application or dual/accelerated enrollment form on file in the Graduate School. Undergraduate credit earned in 700 level courses cannot later be counted toward a graduate degree.

Extra Credit

Lab Assignments: Total 30 pts, if extra questions/activities are answered/performed correctly.

Assignment Late Submission Policy

Past due, 5% off. One day late, 15% off. Two days late, 25% off. Three days late or more, no value.

All submissions through Blackboard only

Exam Makeup Policy

Only under verifiable emergency situations. In general, the students are required to communicate with the lecture and lab instructors soon after knowing that a lecture/lab will be missed. Excuses that are presented days or weeks after the incident will not be accepted.

Important Academic Dates

For Spring semester 2018, classes begin 18, January 2018, and end 3, May, 2018. The last date to drop a class and receive a W (withdrawn) instead of F (failed) is March 30, 2018. There are no classes on March 22(Spring Break). The Midterm exam period is March 1, 2018.

Disabilities

If you have a physical, psychiatric/emotional, or learning disability that may impact on your ability to carry out assigned course work, I encourage you to contact the Office of Disability Services(DS).

The office is located in Grace Wilkie, room 203, (316) 978-3309 (voice/tty) (316-854-3032 videophone). DS will review your concerns and determine, with you, what academic accommodations are necessary and appropriate for you. All information and documentation of your disability is confidential and will not be released by DS without your written permission.

Counseling & Testing

The WSU Counseling & Testing Center provides professional counseling services to students, faculty and staff; administers tests and offers test preparation workshops; and presents programs on topics promoting personal and professional growth. Services are low cost and confidential. They are located in room 320 of Grace Wilkie Hall, and their phone number is (316) 978-3440. The Counseling & Testing Center is open on all days that the University is officially open. If you have a mental health emergency during the times that the Counseling & Testing Center is not open, please call COMCARE Crisis Services at (316) 660-7500.

Diversity and Inclusive

Wichita State University is committed to being an inclusive campus that reflects the evolving diversity of society. To further this goal, WSU does not discriminate in its programs and activities on the basis of race, religion, color, national origin, gender, age, sexual orientation, gender identity, gender expression, marital status, political affiliation, status as a veteran, genetic information or disability. The following person has been designated to handle inquiries regarding nondiscrimination policies: Executive Director, Office of Equal Opportunity, Wichita State University, 1845 Fairmount, Wichita KS 67260-0138; telephone (316) 978-3186.

Intellectual Property

Wichita State University students are subject to Board of Regents and University policies (see http://webs.wichita.edu/inaudit/ch9_10.htm) regarding intellectual property rights. Any questions regarding these rights and any disputes that arise under these policies will be resolved by the President of the University, or the President's designee, and such decision will constitute the final decision.

Shocker Alert System

Get the emergency information you need instantly and effortlessly! With the Shocker Alert System, we will contact you by email the moment there is an emergency or weather alert that affects the campus. Sign up at www.wichita.edu/alert.

Student Health Services

WSU's Student Health clinic is located in 209 Ahlberg Hall. Hours are 8:00am to 7:00pm (8:00 am to 5:00 pm on Fridays), though the clinic may be closed occasionally on Wednesdays from noon to 1:30pm. The telephone number is (316) 978-3620. In addition to

outpatient and preventive care (including immunizations, a prescription service, and testing/counseling for sexually transmitted infections), Student Health can handle minor injuries. All services are confidential. For more information see www.wichita.edu/studenthealth.

Title IX

Title IX of the Educational Amendments of 1972 prohibits discrimination based on sex in any educational institution that receives federal funding. Wichita State University does not tolerate sex discrimination of any kind including: sexual misconduct; sexual harassment; relationship/sexual violence and stalking. These incidents may interfere with or limit an individual's ability to benefit from or participate in the University's educational programs or activities. Students are asked to immediately report incidents to the University Police Department, (316) 978- 3450 or the Title IX Coordinator (316) 978-5177. Students may also report incidents to an instructor, faculty or staff member, who are required by law to notify the Title IX Coordinator. If a student wishes to keep the information confidential, the student may speak with staff members of the Counseling and Testing Center (316) 978-3440 or Student Health Services (316) 978-3620. For more information about Title IX, go to: <http://www.wichita.edu/thisis/home/?u=titleixf>

The Heskett Center and Campus Recreation

Whether you are wanting to be active on campus, relieve the stress from classes or take care of your body, Wichita State Campus Recreation is the place for you. Campus Recreation, located inside the Heskett Center, contributes to the health, education, and development of Wichita State University students, faculty, staff, alumni, and community members by offering quality programs and services. With many programs and facilities which are free to all students and members, Campus Recreation offers its members limitless opportunities. For more information about our services see www.wichita.edu/heskett.

Video and Audio Recording

Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. Unless explicit permission is obtained from the instructor, recordings of lectures may not be modified and must not be transferred or transmitted to any other person, whether or not that individual is enrolled in the course.

CARE Team

Wichita State University is committed to the safety and success of and cares about all members of the University community. If you or someone you know needs support, is distressed, or exhibits concerning behavior that is interfering with their own or others' academic or personal success or the safety of members of our community, resources and assistance are available. As your Faculty, I may seek support for you. If you or another member of our campus community is in need of help, please submit a concern at www.wichita.edu/ubit or call any CARE team member listed on that webpage. In case of emergency, please call the University Police Department at (316) 978-3450 or 911.

Concealed Carry Policy

The Kansas Legislature has legalized concealed carry on public university campuses. Guns must be out of view, concealed either on the body of the carrier, or backpack, purse or bag that remains under the immediate control of the carrier. Gun owners must familiarize themselves with WSU's Concealed Carry Policy at http://webs.wichita.edu/?u=wsunews&p=/weapons_policy_documents and the Kansas Board of Regents's policy at http://www.kansasregents.org/about/policies-by-laws-missions/board_policy_manual_2/chapter_ii_governance_state_universities_2/chapter_ii_full_text

[t#weapons.](#)

If you believe that there has been a violation of this policy, please contact the University Police Department at 316 978-3450.

Additional Concealed Carry Language for lab courses or other courses where student belongings are unattended and out of immediate control

Under the Concealed Carry Policy, a backpack or other bag used to carry a handgun must be within the immediate control of the individual. This course requires students to leave belongings such as backpacks or other bags out of reach and unattended for the duration of class time. Students who choose to carry a concealed handgun in a backpack or other bag must plan each day accordingly, and are responsible for making alternate arrangements as necessary. Wichita State does not provide publicly available secure storage for concealed handguns. If you believe that there has been a violation of this policy, please contact the University Police Department at 316 978-3450.

Names and Pronouns

Everyone has the right to be addressed as and referred to by the name and pronouns (including non-binary pronouns) that they choose and that correspond to their gender identity. Class rosters have a student's legal name and do not include pronouns, therefore, all students will be asked in class to indicate the names and pronouns they use for themselves. A student's chosen name and pronouns are to be respected at all times in the classroom.

Week	Day	Lecture	Due
1	Jan 18	Lab 1 , Introduction	-
2	Jan 25	Lab 2 , Assignment 1	-
3	Feb 1	Lab 3 , Assignment 2	Assignment 1
4	Feb 8	Lab 4 , Assignment 3	Assignment 2
5	Feb 15	Lab 5 , Assignment 4	Assignment 3
6	Feb 22	Review for MIDTERM	Assignment 4, Sample exam (Extra credit)
7	Mar 1	MIDTERM EXAM	
8	Mar 8	Term project	Problem statement
9	Mar 15	Term project	
10	Mar 22	NO CLASS (Spring Break)	
11	Mar 29	Term project	
12	Apr 5	Term project	Initial Review & Group Peer Evaluation-1
13	Apr 12	Term project	
14	Apr 19	Term project	
15	Apr 26	Term project	Final Presentation
16	May 3	Last day of Class	Project report & Group Peer Evaluation-2