

SYLLABUS

DATE OF LAST REVIEW:	3/9/2026
CIP CODE:	15.1302
SEMESTER:	Departmental Syllabus
COURSE TITLE:	Pictorial Drawing
COURSE NUMBER:	ENGR-0154
CREDIT HOURS:	2
INSTRUCTOR:	Departmental Syllabus
OFFICE LOCATION:	Departmental Syllabus
OFFICE HOURS:	Departmental Syllabus
TELEPHONE:	913-334-1100
EMAIL:	KCKCC-issued email accounts are the official means for electronically communicating with our students.
PREREQUISITE(S):	None
REQUIRED TEXT(S):	Please check with the KCKCC bookstore, http://www.kckccbookstore.com for the required text for your particular class.

COURSE DESCRIPTION: Methods of pictorial representations and rendering are presented. A study of axonometric, oblique and perspective projections. Pictorial drawing devices and methods of shading and rendering will also be presented.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, and panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:

Course content may vary, but will generally include the following:

I. Techniques of sketching

- A. Isometric
- B. Oblique
- C. Perspective

II. Axonometric Projection

- A. Isometric drawing and projection
- B. Dimetric projection
- C. Trimetric projection

III. Oblique Projection

- A. Cavalier projection
- B. Cabinet projection
- IV. Perspective Drawing
 - A. One point
 - B. Two point
 - C. Three point
- V. Exploded pictorial drawing
 - A. Isometric
 - B. Assembly drawings

EXPECTED LEARNER OUTCOMES:

- A. Upon completion of the course the student will be able to sketch isometric, oblique, and perspective drawings.
- B. Upon completion of the course the student will be able to demonstrate the ability to draw isometric, dimetric, and trimetric drawings.
- C. Upon completion of the course the student will be able to demonstrate the ability to draw oblique drawings.
- D. Upon completion of the course the student will be able to demonstrate the ability to draw perspective drawings.
- E. Upon completion of the course the student will be able to demonstrate the ability to draw exploded assembly drawings.

COURSE COMPETENCIES:

Upon completion of the course the student will be able to sketch isometric, oblique, and perspective drawings.

- 1. Upon completion of the course the student will be able to sketch isometric drawings.
- 2. Upon completion of the course the student will be able to sketch oblique drawings.
- 3. Upon completion of the course the student will be able to sketch perspective drawings
- 4. Upon completion of the course the student will be able to interpret data and sketch isometric projection drawings.
- 5. Upon completion of the course the student will be able to interpret data and sketch cavalier oblique drawings.
- 6. Upon completion of the course the student will be able to interpret data and sketch cabinet oblique drawings.
- 7. Upon completion of the course the student will be able to interpret data and sketch two point perspective drawings.

Upon completion of the course the student will be able to demonstrate the ability to draw isometric, dimetric, and trimetric drawings.

- 8. Upon completion of the course the student will be able to interpret data to draw isometric projections.
- 9. Upon completion of the course the student will be able to interpret data to draw isometric drawings.
- 10. Upon completion of the course the student will be able to interpret data to draw dimetric drawings.
- 11. Upon completion of the course the student will be able to interpret data to draw trimetric drawings.

Upon completion of the course the student will be able to demonstrate the ability to draw oblique drawings.

- 12. Upon completion of the course the student will be able to interpret data to draw cavalier oblique drawings.
- 13. Upon completion of the course the student will be able to interpret data to draw cabinet oblique drawings.
- 14. Upon completion of the course the student will be able to interpret data to determine the appropriate position in which to place object in oblique projection.

Upon completion of the course the student will be able to demonstrate the ability to draw perspective drawings.

- 15. Upon completion of the course the student will be able to interpret data to draw one point perspective drawings.

16. Upon completion of the course the student will be able to interpret data to draw two point perspective drawings.
17. Upon completion of the course the student will be able to interpret data to draw three point perspective drawings.
18. Upon completion of the course the student will be able to determine the difference between one, two, and three point perspective drawings.

Upon completion of the course the student will be able to demonstrate the ability to draw exploded assembly drawings.

19. Upon completion of the course the student will be able to interpret data to draw isometric exploded assembly drawings.
20. Upon completion of the course the student will be able to interpret data to draw oblique exploded assembly drawings.
21. Upon completion of the course the student will be able to interpret data to determine scale on exploded assembly drawings.

ASSESSMENT OF LEARNER OUTCOMES:

Assessment methods may include, but are not limited to, the following: Homework, Assignments, Quizzes, Class Participation, Chapter Tests, and Final Exam. The grading scale and the process for calculating the course grades are to be determined by the individual instructors. This information will be included in each instructor's syllabus.

SPECIAL NOTES:

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college's policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

Kansas City Kansas Community College complies with the Americans with Disabilities Act. If you need accommodations due to a documented disability, please contact the Director of the Academic Resource Center, in Rm. 3354 or call at: 288-7670.

All enrolled students at Kansas City Kansas Community College are subject to follow all rules, conditions, policies and procedures as described in both the Student Code of Conduct as well as the Student Handbook. All Students are expected to review both of these documents and to understand their responsibilities with regard to academic conduct and policies. The Student Code of Conduct and the Student Handbook can be found on the KCKCC website.

