SYLLABUS

DATE OF LAST REVIEW: 02/2013

CIP CODE: 48.0501

SEMESTER: Departmental Syllabus

COURSE TITLE: Print Reading

COURSE NUMBER: MACH0104

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

PREREQUISITES: None

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckcc.bookstore.com, for the required texts for your particular class.

COURSE DESCRIPTION:
This course will give the learner the knowledge to be proficient in the understanding and interpretation to translate and communicate information from drawings that will be needed to inspect, assemble and produce parts. Special emphasis will be implemented on providing realistic print reading examples and problems based from engineering and manufacturing Fundamentals.

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, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:

I. History of blue prints:
   A. Early blue prints.
   B. Present blue prints.
   C. Types of blue prints.
D. Blue Print contents.

II. Introduction to sketching:
   E. Projections.
   F. Free hand sketches.
   G. Scale commonly used.
   H. Blue print sizes.
   I. Line, points, circles.
   J. Arrangement of views.
   K. Auxiliary views.

III. Line Identification:
   L. Alphabet of lines.
   M. Dimensioning procedures.
   N. Sectioning.
   O. Geometric tolerancing.
   P. Special notations and symbols.

IV. Special blue prints:
   A. Welding print identification.
   B. Electrical schematics print identification.
   C. Hydraulic pneumatic print identification.
   D. Ladder logic.
   E. Hardware identification.
   F. CAD drawings.

EXPECTED LEARNER OUTCOMES:
A. The student will be able to recognize the evolution of blue print reading.
B. The student will be able to identify Types of blueprints.
C. The student will be able to understand concepts of line identification.
D. The student will be able to express views.
E. The student will be able to interpret views.
F. The student will be able to interpret terms used related to blue prints.
G. The student will be able to understand dimensioning procedures.
H. The student will be able to identify surface finishes.
I. The student will be able to identify materials.
J. The student will be able to recognize special blue prints.
K. The student will be able to relate to CAD drawings.

COURSE COMPETENCIES:
Upon completion of this course:

The student will be able to recognize the evolution of blue print reading
1. The student will be able to describe the history of blue prints.

The student will be able to identify types of blueprints.
2. The student will be able to identify types of prints.
3. The student will be able to describe blue print uses.
4. The student will be able to describe what prints contain.
5. The student will be able to give examples for uses of prints.
6. The student will be able to describe new drafting systems.

*The student will be able to understand concepts of line identification.*
7. The student will be able to identify lines by name and application.
8. The student will be able to create line, point, and surfaces in relation to other views.

*The student will be able to express views.*
9. The student will be able to identify orthographic projection.
10. The student will be able to identify isometric drawings.
11. The student will be able to identify types of views.

*The student will be able to interpret views.*
12. The student will be able to identify and describe the importance of auxiliary views.
13. The student will be able to perform simple pictorial sketches.

*The student will be able to interpret terms used related to blue prints.*
14. The student will be able to describe blue print size numbering systems.
15. The student will be able to create title block and describe contents.
16. The student will be able to describe tolerance limits.
17. The student will be able to describe stack tolerance.

*The student will be able to understand dimensioning procedures.*
18. The student will be able to describe datums and baselines.
19. The student will be able to describe tabular dimensioning.

*The student will be able to identify surface finishes*
20. The student will be able to identify surface finishes with the use of finish comparator.

*The student will be able to identifies materials.*
21. The student will be able to create examples of supplementary information.
22. The student will be able to identify materials by the use of section lines.

*The student will be able to recognize special blue prints.*
23. The student will be able to identify thread classifications.
24. The student will be able to identify gear and spline dimensioning.
25. The student will be able to identify special symbols used on prints.
26. The student will be able to identify the contents related to welding prints.
27. The student will be able to identify the contents related to electrical prints.
28. The student will be able to identify the contents related to hydraulic pneumatic prints.
29. The student will be able to locate information using ladder logic techniques.

*The student will be able to relate to CAD Drawings*
30. The student will be able to identify materials on blue prints.
31. The student will be able to describe symbols used in GMDT.
32. The student will be able to create drawings with the aid of CAD program.
ASSESSMENT OF LEARNER OUTCOMES:
Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

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.

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