KENTUCKY STATE UNIVERSITY
FACULTY SENATE
CURRICULUM COMMITTEE

FSCC# 12/13-30  Effective Date ________________

CURRICULAR/PROGRAM CHANGE TRACKING DOCUMENT

ACADEMIC UNIT: Applied Information Technology  DATE SUBMITTED: April 1, 2013

1. BRIEF EXPLANATION OF PROPOSED CHANGE:
Add new course to fulfill requirements for academic activities associated with, but not limited to, KSU workforce development designation with Louisville bridges project.

2. CHECK ITEM(s) BELOW FOR CHANGES DESIRED:

☐ New Degree Certification  ☐ Deletion of Degree or Certification
☐ New or Revised Major  ☐ Deletion of Course
☐ New or Revised Minor  ☐ Revised Degree or Certification
☒ New Course(s)  ☐ Revised Course
☐ Course Level (number) Change  ☐ Other (specify below):

I. Dean’s Action:
☒ Approved  ☐ Disapproved  ☐ Returned for Recommended Change

[Signature]

Date: ________________

II. Curriculum Committee Action:
☐ Approved  ☐ Disapproved  ☐ Returned for Recommended Change
Chairperson: (signature): ________________  Date: ________________

III. Faculty Senate Action:
☐ Approved  ☐ Disapproved  ☐ Returned for Recommended Change
Senate President (signature): ________________  Date: ________________

IV. Provost/Vice President Academic Affairs (not required for courses):

N/A

V. President’s Action (not required for courses):

N/A

Final Faculty senate Approved form as of 9/15/06

Kentucky State University is an equal educational and employment opportunity/affirmative action institution
CURRICULUM COMMITTEE
NEW COURSE PROPOSAL

ACADEMIC UNIT: Applied Information Technology

DATE PREPARED: April 1, 2013

PRIMARY AUTHOR(S): John English

ACADEMIC DISCIPLINE
FACULTY APPROVED: April 1, 2013
(Committee Chairperson’s Signature)

CHAIRPERSON/DEAN

APPROVED: 4/2/2013
(Chairperson’s/Dean Signature)

1. NEW COURSE NUMBER: INT 101

2. NEW COURSE TITLE: Engineering Drafting I

3. CAPSULE STATEMENT OF COURSE CONTENT FOR CATALOG:
   Fundamentals in blueprint reading, ANSI standards, symbolic canons, dimensioning rubrics and shape description techniques including: orthographic projection, auxiliary views, sectional views and pictorial projection.

4. DESCRIPTION OF COURSE CONTENT FOR COURSE SYLLABUS:
   Fundamentals in blueprint reading, ANSI standards, symbolic canons, dimensioning rubrics and shape description techniques including: orthographic projection, auxiliary views, sectional views and pictorial projection. The role blueprints play in the communication system and management activities to professional engineering-type communication. Students will receive opportunities to learn technical communication skills and apply them through judgment and thinking processes and correctly interpret engineering blueprints.

5. PREREQUISITES: None.

6. REQUIRED COURSE: _____ Yes   X No

7. CREDITS: (a) Number: 3
   (b) Variable credit Explanation: 
   (c) Will course be repeatable for credit: __Yes   X No

Final Faculty Senate Approved Form as of 10/4/89

Kentucky State University is an equal educational and employment opportunity/affirmative action institution
(d) Grading systems permitted: _X_ A-F ___ P/F ___ Credit/No Credit

Exceptions: ________________________________

8. Course Level: _X_ Elementary
   ___ Intermediate
   ___ Intermediate/Advanced
   ___ Advanced

9. CROSSLISTING DEPARTMENTS (attach supporting letters): None.

10. SCHEDULING PLAN: _X_ Each semester
      ___ Annually
      ___ Biennially
      ___ Occasionally

11. STARTING WITH:
   _____ Fall, _____ Spring, _X_ Summer: 2013 Academic Year

12. IS THIS A “SPECIAL TOPICS” COURSE? _____ Yes _X_ No

13. EXPLANATION OF NEED FOR THE SPECIFIC COURSE:
    Add new course to fulfill requirements for academic activities associated with, but not limited to, KSU workforce development designation with Louisville bridges project.

14. RELATIONSHIP TO OTHER LIKE COURSES IN THE DISCIPLINE/UNIVERSITY:
    Directly related to GIS offerings as a potential prerequisite or co-requisite.

15. COURSE WHICH MAY BE DROPPED AS A RESULT OF THIS PROPOSAL: None.

16. INSTRUCTIONAL STAFF (if non-faculty, attach Vita): John English

17. COURSE SYLLABUS AND TEXT REFERENCE:
    Please attach. Include methods the instructor will use to evaluate student performance and a bibliography of available and needed references for Blazer Library.

    No reference materials are needed from Blazer Library for this course.
INT 101
Engineering Drafting I - 3 Credit Hours

Course Description:

Fundamentals in blueprint reading, ANSI standards, symbolic canons, dimensioning rubrics and shape description techniques including: orthographic projection, auxiliary views, sectional views and pictorial projection. The role blueprints play in the communication system and management activities to professional engineering-type communication. Students will receive opportunities to learn technical communication skills and apply them through judgment and thinking processes and correctly interpret engineering blueprints.

Text:

Instructor:
Dr. John English, Associate Professor
Phone: 502/597-6651
E-Mail: john.english@kysu.edu
Office Hours:
Course Website: http://blackboard.kysu.edu

OBJECTIVES

Each student will do the following:

1. Demonstrate knowledge of career opportunities in the field of technical communications.
2. Use and maintain related equipment in the proper manner.
3. Perform technical sketches at a professional level.
4. Demonstrate a working knowledge of the alphabet of lines and their characteristics.
5. Apply the concept of projections to technical sketching.
6. Properly use the mechanical and architectural scales.
7. Demonstrate a basic understanding of the concept of geometric construction.
8. Engage in critical thinking by active participation in problem solving.
9. Communicate through the application of graphical standards focused on shape and size descriptions of engineering designs.
10. Provide evidence of comprehensive understanding and demonstrate the proper use of Cartesian coordinates as stipulated in standard CAD software.

INSTRUCTIONAL METHODS
The instructor for this class will implement methods for the purposes of accomplishing learning educational objectives in an environment designed to simulate real-world professional responsibilities. The following instructional methods will be in use; lecture, class discussions, and demonstrations. The instructor reserves the possibility to utilize additional instructional methods to better suit content, audience, and/or educational objectives.

**REQUIREMENTS OF THE COURSE**

Each student is expected to do the following:

1. Attend class regularly. Attendance will be taken every class meeting. The University’s attendance regulations are in effect for this course.

2. Students are responsible for the portion of material covered in class, for any announcements made, and for the homework assignments given during their absence from class. Students are required to obtain this information prior to the next class meeting following the absence if the information is obtained from the instructor.

3. Complete the mid-term and final examinations as well as all course requirements.

4. Inquire. Each student MUST be prepared for each class and ready to engage in-depth discussions concerning previous and current course topics. These discussions are NOT limited to textbook information.

5. Students are encouraged to engage in small group activities. However, knowledge of content information will be the responsibility of each individual student.

6. An equipment list will be given during first class. Equipment is required and should be acquired by the second class meeting.

**Evaluation Procedures:**

The final grade will be based upon the following distribution:

- Participation ..................10%
- Mid_term..........................20%
- Final..............................20%
- Assignments......................50%

100%

Letter grades will be based upon the numerical average obtained from above as follows:

A =.................................90-100
B =.................................80-89
C =.................................70-79
D =.................................60-69
F =.................................0-59

Smoking is not permitted in the building. The designated smoking area for Shaunte Hall is located outside the main entry door.

**PLANNED OUTLINE OF INSTRUCTIONAL CONTENT**
APPENDIX A: Mechanical Drafting Mathematics will be interlaced into this curriculum. Each week one to three specific topics from this appendix will be covered briefly in class. It is the student's responsibility to learn each covered topic from this section of the text as well as all additional topics addressed in class.

READ THE PREFACE. Becoming familiar with how this book is written will greatly assist your learning. READ THE INTRODUCTION. Answer the 12 questions on page 20. Submit answers for grade.

Many of the following assignments can and should be done outside of actual class time. Sketches are not required for each drawing but when done outside of class time they become a tremendous advantage.

Chapter One: Instruments, Hardware, and Systems
READ entire chapter first. Assignments: Problems 1-1 through 1-6 page 58 and problem 1-10 page 59 and one problem of your choice on page 60. Submit for grade.

Chapter Two: Lettering, Sketching, and Line Techniques
READ entire chapter first. Assignments: Answer the 15 review questions on page 78. Also complete the following problems at end of this chapter; 2-4, one sketch problem of your choice on each of the following pages: 80, 81, 82, 83 and do problem 2-25. The machine tool lab, located on first floor, will be visited for your "mental picture." Submit for grade.

Chapter Three: Geometric Construction
READ entire chapter first. Learning more about geometric "pieces" will reward you in any technical career long after finishing your degree. Assignments: (Read beginning information on page 126 before beginning) Problem 3-2 and 3-12. Submit for grade.

Chapter Four: Multi view Drawings
READ entire chapter first. This is the most important chapter in any drafting course, beginning or advanced. Information from this chapter is the foundation most technical careers require. Assignments: (Read information on page 160 before beginning) Problems 4-1 through 4-4. Submit for grade.

Chapter Five: Sectional Views
READ entire chapter first. Most all technical drawings include Multi view drawings and some form of a sectional view. Assignments: Answer the 12 review questions on page 189. Submit for grade.

Chapter Six: Auxiliary Views
READ entire chapter first. While auxiliary views are not used as often as others, knowing how to create them will greatly enhance your visualization skills. Assignments: Answer the 11 review questions on page 214 and generate solution for problem 6-2. Submit for grade.

Chapter Seven: Descriptive Geometry
READ the entire chapter first. Assignment: Answer the 27 review questions on pages 271-272. Submit for grade.

Chapter Nine: Dimensioning and Notation
READ entire chapter first. Assignment: Answer the 25 review questions on page 374. Lab assignment will be to dimension at least one drawing generated as an earlier assignment. Instructor will announce which drawing this will be. Submit for grade.

Chapter Ten and Eleven: CAD/CAE: Technology and Systems and Engineering Visualization: Computational Design and Analysis, respectively.
READ both entire chapters.
Assignment: None. To be discussed in class.

Chapter Twelve: Geometric Dimensioning and Tolerancing
READ entire chapter.
Assignment: Answer the 15 review questions on page 439 and solve for problem 12-31. Submit for grade.
Student Acknowledgment of Receipt of Course Information

My signature below indicates that I have received a course syllabus for the following course, ___________, and I have been notified that the “Common Policies for all Courses at KSU” can be found throughout the University Catalogue at:

http://www.kysu.edu/about/divisions/studentAffairsAndEnrollment/enrollmentManagement/registrar/Kentucky-State+University+Catalogue.htm

I agree to read these documents, and I agree to sign and deliver this copy of the “Student Acknowledgment” form within two (2) weeks of the start of the semester. I understand that the policies contained within these documents apply directly to me and to all students in the class. I agree to abide by these policies, and recognize that not abiding by these policies could result in dismissal from this class and/or affect my standing as a student at KSU as per Section 2.C. of the Student Handbook and Section XIX.G.1. of the University Catalogue.

Name (please print): ____________________________
CWID: ____________________________
Signature: ____________________________
Date: ____________________________

Contact information (please PRINT clearly):
Local Address: ____________________________________________
Local Phone: ____________________________
E-Mail: ____________________________

[Or, the instructor may choose the electronic option:]

Student Acknowledgment of Receipt of Course Information

Read the syllabus and the “Common Policies for all Courses at KSU” found throughout the University Catalogue at:

http://www.kysu.edu/about/divisions/studentAffairsAndEnrollment/enrollmentManagement/registrar/Kentucky-State+University+Catalogue.htm

Then, type exactly what is written below in Statements (1) and (2), and deliver this statement as instructed: make sure “Student Acknowledgment of Receipt of Course Information” is on the subject line. Adding your name and student ID at the end of the statement will stand as your signature. I also agree to deliver this copy of the “Student Acknowledgment” form within two (2) weeks of the start of the semester. I understand that the policies contained within these documents apply directly to me and to all students in the class. I agree to abide by these policies, and recognize that not abiding by these policies could result in dismissal from this class and/or affect my standing as a student at KSU as per Section 2.C. of the Student Handbook and Section XIX.G.1. of the University Catalogue.

1) This statement acknowledges that: (A) I have received the course syllabus for CIT 120, and (B) I have read the “Common Policies for all Courses at KSU.” I understand this statement will be printed and kept in my permanent file or be placed in my electronic Blackboard file for future reference.

2) I agree that I have read these documents before sending this email to my Instructor. I understand that the policies contained within these documents apply directly to me and to all students in the class. By sending this email I agree to abide by these policies, and recognize that not abiding by these policies could result in dismissal from this class and/or affect my standing as a student at KSU.

Student Name and ID number