

Prefix	Number	Title
ETEC	140	Engineering Graphics Comprehensive

d. Addition of existing FSU courses to program

Prefix	Number	Title
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e. Removal of existing FSU courses from program

Prefix	Number	Title
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*Contact Senate Secretary or UCC Chair if spaces for additional courses are needed.

CURRICULUM CONSULTATION FORM

To be completed by each department affected by the proposed change, new degree, new program, new minor, or new course. Potential duplication of coursework is reason for consultation.

1. This completed form must be forwarded with the proposal to the chair/head of the department to be consulted.
2. The department must respond within 20 calendar days of receipt of this form to insure inclusion in the final proposal. The completed form is returned to the initiator and inserted into the proposal.

Failure to respond is interpreted as support for the proposal.

3. The Proposing Department must address any concerns raised by the department. This response will be in writing and be included in the proposal following the consultation form.

RE: Proposal Title ETEC140 Updated course description and outline

Initiator(s): Mechanical Engineering Technology

Proposal Contact: Brian Brady **Date Sent:** 23OC08

Department: MDSN **Campus Address:** 405 Swan
(Please print)

Responding Department: AUTO

Chair/Head/Coordinator: _____ **Date Returned:** _____

Based upon department faculty review on _____ (date), we

- Support the above proposal.
- Support the above proposal with the modifications and concerns listed below.
- Do not support the proposal for the reasons listed below.

Comment regarding the impact this proposal has on scheduling, room assignments, faculty load, and prerequisites for your department. Use additional pages, if necessary.

FLITE SERVICES CONSULTATION FORM

To be completed by the liaison librarian and approved by the Dean of FLITE. All returned forms should be included in the proposal. FLITE must respond within 20 calendar days of receipt of this form to insure that the form is included in the final proposal.

FAILURE TO RESPOND IS CONSIDERED AS SUPPORT OF THE CHANGE.

RE: Proposal Title: ETEC140 Updated course description and outline

Projected number of students per year affected by proposed change: 150

Initiator(s): <u>Mechanical Engineering Technology</u>
Proposal Contact: <u>Brian Brady</u> Date Sent: <u>23OC08</u>
Department: <u>MDSN Campus</u> Address: <u>405 Swan</u> (Please print)

Liaison Librarian Signature: <u>Francesca Rosen</u> Date: <u>11/18/08</u>
Dean of FLITE Signature: <u>Leah M. Money</u> Date Returned: <u>11-18-08</u>

Based upon our review on 11/18/08 (date), FLITE concludes that:

- Library resources to support the proposed curriculum change are currently available.
- Additional Library resources are needed but can be obtained from current funds.
- Support, but significant additional Library funds/resources are required in the amount of \$_____.
- Does not support the proposal for reasons listed below.

Comment regarding the impact this proposal will have on library resources, collection development, programs, etc. Use additional pages if necessary.

MODIFY COURSE
Course Data Entry Form

FORM F

Modify Course
Rev. 07/23/07

I. ACTION TO BE TAKEN: MODIFY AN EXISTING COURSE

Notes:

1. Complete all parts of Sections I and II; complete only those items in Section III that represent changes.
2. If either prefix or number is being changed, use 'Delete Course' and 'Create New Course' forms rather than this form.

a. List the changes to be made (See Proposed Changes a through p below): m

b. Term Effective (6 digit code only): 200905 Examples: 200801(Spring), 200805(Summer), 200808(Fall)
Note: The first four digits indicate year, the next two digits indicate month in which term begins.

II. CURRENT: Include information that is in the current course database.

a. Course Prefix **ETEC** b. Number **140** c. Enter Contact Hours per week in boxes.
LECTure **2** LAB **3** INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: Engineering Graphics Comprehensive

III. PROPOSED CHANGES: Complete only those boxes that represent proposed changes identified in Section I. Leave all other spaces blank.

a. Course Prefix b. Number c. Enter Contact Hours per week in boxes.
LECTure LAB INDEpendent Study – Check (x)
Practicum: Seminar:

d. Course Title: (Limit to 30 characters/spaces.)

e. College Code: f. Department Code:

Credit Hours: Check (x) type and enter maximum and minimum hours in boxes.

g. Type: Variable Fixed h. Maximum Credit Hours i. Minimum Credit Hours

j. May Be Repeated for Added Credit: Check (x) Yes No

k. Levels: Check (x) Undergraduate Graduate Professional

l. Grade Method: Check (x) Normal Grading Credit/No Credit only (Pass/Fail)


m. CATALOG DESCRIPTION – Limit to 75 words – PLEASE BE CONCISE.

Comprehensive introductory course which integrates technical drawing fundamentals, 2-D CAD, and 3-D CAD. Drawing fundamentals will focus on understanding and recognizing the standards which guide the creation of technical drawings, reading and interpreting technical drawings, and creating standards compliant sketches. The CAD portion of the course will focus on basic competence in turning sketched ideas into 2-D CAD drawings and basic 3D computer models that meet design intent and are ready for future analysis.

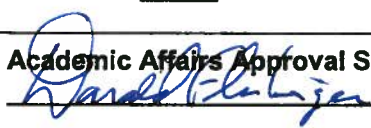
n. Term(s) Offered: (See instructions for listing.) o. Max. Section Enrollment:

p. Prerequisites/Co-requisites/Restrictions: Limited to 100 spaces.

DCC Chair Signature/Date:

 1/27/09

Academic Affairs Approval Signature/Date:

 1/29/09

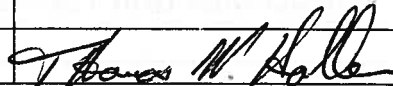
To be completed by Academic Affairs Office: - Standard & Measures Coding and General Education Code

Basic Skill (BS) General Education (GE) Occupational Education (OC) G.E. Codes

Office of the Registrar use ONLY

Date Rec'd: ____ Date Completed: ____ Entered: SCACRSE __ SCADETL __ SCARRES __ SCAPREQ __

Course Outline

Last Revision Date:	
Department Curriculum Committee Chair:	

Course: ETEC 140

Engineering Graphics Comprehensive

Credits: 3 Hours

Contacts: 2 Lecture, 3 Lab Hours per Week

Course Description: Comprehensive introductory course which integrates technical drawing fundamentals, 2-D CAD, and 3-D CAD. Drawing fundamentals will focus on understanding and recognizing the standards which guide the creation of technical drawings, reading and interpreting technical drawings, and creating standards compliant sketches. The CAD portion of the course will focus on basic competence in turning sketched ideas into 2-D CAD drawings and basic 3D computer models that meet design intent and are ready for future analysis.

Course Prerequisites: None

Required Textbooks: An appropriate technical sketching/print reading text and a CAD text

Required Materials: USB flash drive, mechanical pencil, engineering scale, circle template*, compass*, protractor*, 30-60-90 triangle*, 45-45-90 triangle* (*=suggested)

Student Learning Outcomes

Students satisfactorily completing this course will achieve/complete/demonstrate...:

1. Understanding of the fundamental rules and guidelines used in the creation of standards compliant technical drawings.
2. Ability to read and interpret technical drawings.
3. Ability to create basic multi-view sketches of physical objects and pictorial representations of objects that may include sectional views, auxiliary views, dimensions, and tolerances.
4. Ability to create two-dimensional CAD drawings that are compliant with drawing standards.
5. Ability to create three-dimensional computer models of parts that meet design intent and can be used for analysis in higher level classes.
6. Communicate ideas using a mix of sketches and 2-D/3-D CAD drawings.

Course Outline

II.	Two-dimensional CAD A. Understand the construction of the command syntax B. Save and open files C. Understand absolute and relative coordinate data entry D. Setup drawing parameters E. Draw lines, arcs, circles, polygons, reference lines, ellipses F. Selecting objects for editing G. Erase, move, copy, mirror, offset drawing objects H. Use object snaps and tracking relate objects together I. Create templates J. Create objects on different layers with different properties K. Create custom viewports with borders and titleblocks L. Create multiview drawings M. Crosshatch sectioned details N. Use dimensioning commands to dimension and tolerance objects	7	10.5
III.	Three-dimensional CAD A. Understand the use of reference planes and lines B. Create sketches in a 2D sketching environment C. Apply constraints to sketches D. Apply dimensions to sketches that match the design intent of the object E. Extrude 3D objects from 2D sketches F. Revolve 3D objects from 2D sketches G. Add features such as holes, bosses, slots, etc to extruded or revolved objects H. Modify part geometry I. Create basic assemblies from parts J. Create 2D orthographic drawings from a completed model K. Apply dimensioning and notes to 2D drawings	8	12
IV.	EVALUATION (Test/quizzes/project)	4	6
	Total Hours	30	45



Leonard Johnson/FSU

12/16/2008 03:24 PM

To Brian D Brady/FSU@FERRIS

Sandra L Alspach/FSU@FERRIS, Leonard
cc Johnson/FSU@Ferris, Andrew L Purvis/FSU@FERRIS,
Barbara A Ross/FSU@Ferris, Maureen E

bcc

Subject ETEC 140 Proposal

Hi Brian

The UCC met last week and discussed your proposal to update the course description and outline for ETEC 140. Before we can act on the proposal, I need to verify to whom the Form B's for AUTO, PLRU, and ECNS were sent, and that they were received. Please provide me with that information at your earliest convenience.

Thanks.

Leonard

Leonard R. Johnson, Ph.D

Professor

Ferris State University

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Big Rapids, Michigan 49307

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