

ACADEMIC SENATE PROPOSAL TRACKING SHEET

(Document To Be Originated By Academic Senate Secretary On Canary Color Paper)

All proposals MUST have their originating college faculty body (Ex. Nursing, Technical Sciences, Arts & Sciences, Education) approval and must be signed by the submitter and the college chair/dean before being submitted to the academic senate secretary.

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the Academic Senate Secretary.
2. The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate subcommittee(s): Teacher Education (if applicable), General Education (if applicable), or Curriculum.
3. The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is forwarded to the next committee. If a committee disapproves the proposal, the originator may request that the item be forwarded to the next body for consideration. The committee will provide written rationale to the originator when a proposal is disapproved and the proposal is returned to the originator.
4. The Academic Senate considers the proposal and approves or disapproves. If approved, the proposal is forwarded to the Full Faculty for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.
5. The Full Faculty considers academic senate approved proposals. If faculty approve, the proposal will then be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor.
7. The Chancellor approves or disapproves the proposal.

Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page --

<http://www.msun.edu/admin/provost/asproposals.htm>

Documentation and forms for the curriculum process is also available on the web page:

<http://www.msun.edu/admin/provost/asforms.htm>

***** (If a proposal is disapproved at any level, it is returned through the Academic Senate secretary to the Chair/Dean of the submitting college who then notifies the originator.)

Proposal # <u>04-32</u>	Title: <u>Design Drafting BS gen ed changes: re-number classes</u>
(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)	
Date _____	

Received by ACAD Senate Forwarded to Teacher Ed Council	<u>2-16-05</u> <u>N/A</u>	Approved _____ Disapproved _____	Signature _____ Date _____
Forwarded to Gen Ed Committee	<u>N/A</u>	Approved _____ Disapproved _____	Signature _____ Date _____
Returned to ACAD Senate Forwarded to Curriculum Committee	<u>N/A</u> <u>2-16-05</u>	Approved <input checked="" type="checkbox"/> _____ Disapproved _____	Signature <u>Wane Bryson</u> Date <u>2-24-05</u>
Returned to ACAD Senate for Vote	<u>2-25-05</u>	Approved <input checked="" type="checkbox"/> _____ Disapproved _____	Signature <u>[Signature]</u> Date <u>3-3-05</u>
Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting	<u>3-4-05</u> <u>3/8/05</u>	Approved <input checked="" type="checkbox"/> _____ Disapproved _____	Signature <u>[Signature]</u> Date _____
Forwarded to Provost for Approval/Disapproval	<u>3/10/05</u>	Approved <input checked="" type="checkbox"/> _____ Disapproved _____	Signature <u>[Signature]</u> Date <u>3-12-05</u>
Forwarded to Chancellor for Approval/Disapproval	<u>3-13-05</u>	Approved <input checked="" type="checkbox"/> _____ Disapproved _____	Signature <u>[Signature]</u> Date <u>3/14/05</u>
Copies sent to originating college and registrar's office C:/data/proposaltracking sheet ACAD 10 10 01	<u>3/14/05</u>		

PROGRAM/DEGREE REVISION FORM

NEW _____ DROPPED _____ MAJOR REVISION X FOR INFORMATION ONLY
 College College of Technical Sciences Program Area Design Drafting BS Date Feb 2005
 Submitter [Signature] Chair/Dean [Signature] Date 2-15-05
signature signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s)

The revision below reflect changes to accommodate the revised general education package
 renumber DRFT 416 to DRFT 316 and DRFT 328 to DRFT 428

Please provide in the space below a "before" & "after" picture of the program with the changes in the program noted
 program noted. Attach appropriate Course Revision Forms. Please indicate changes by shading the appropriate cells

Proposal Title: DESIGN DRAFTING BACHELOR OF SCIENCE gen ed changes

Current Program Listed in 04-05 Catalog

Course Prefix	Course #	Course Title	Crs.
FRESHMAN YEAR			
Fall Semester			
CIS	110	Intro To Computers	3
CET	173	Arch. Cnst. & Materials	3
DRFT	131	Technical Graphics I	4
MATH	112	College Algebra	3
METL	155	Machining Processes	3
Spring Semester			
DRFT	132	Descriptive Geometry	3
DRFT	156	Intro. to CAD	3
SPCH	141	Fund. of Speech	3
ENGL	111	Written Communication I	3
MATH	125	Trigonometry (Area C)	2
EET	110	Electronics Survey I	3
SOPHOMORE YEAR			
Fall Semester			
DRFT	256	3D CAD	3
MFGT	200	Manufacturing Processes	3
DRFT	201	Residential Drafting	3
Select one of the following tracks			
ADDA DESIGN DRAFTING TRACK			
CET	221	Engineering Mechanics	3
PHYS	231	Fund of Physics (Area C)	3
PHYS	234	Fund of Physics Lab (Area C)	1
DRAFTING TECHNOLOGY TRACK			
		Elective	3
PHYS	114	Found. of Phys. Sci.(Area C)	4
Spring Semester			
DRFT	205	Machine Drafting	3
DRFT	244	Topographic Drafting/GIS Apps.	3
CIS	171	Desktop Sml Bus Dbases/Access	3
Select one of the following tracks			
ADDA DESIGN DRAFTING TRACK			
		Elective	3
CET	181	Surveying	3
DRAFTING TECHNOLOGY TRACK			
		Elective	3
		Elective	3

Proposed Program for 05-06 Catalog

Course Prefix	Course #	Course Title	Gen Ed Credits	Degree Crs.
FRESHMAN YEAR				
Fall Semester				
PHYS	114	Fund of Phy Sci (Cat III (3 of 6))	3	
CET	173	Arch. Cnst. & Materials		3
DRFT	131	Technical Graphics I		3
MATH	112	College Algebra Cat II (3)	3	
METL	155	Machining Processes		3
Spring Semester				
DRFT	132	Descriptive Geometry		3
DRFT	156	Intro. to CAD		3
SPCH	141	Fund. of Speech COMM	3	
CIS	111	Integrated Bus Applica.		3
MATH	125	Trigonometry		3
		Elective (CAT IX (3))	3	
SOPHOMORE YEAR				
Fall Semester				
DRFT	256	3D CAD (3)		3
MFGT	200	Mfgt Processes & Materials (3)		3
DRFT	201	Residential Drafting (3)		3
Select one of the following tracks				
ADDA DESIGN DRAFTING TRACK				
CET	221	Engineering Mechanics		3
PHYS	231	Fund of Physics (CAT III 3 OF 6)	3	
PHYS	234	Fund of Physics Lab (CAT III 3 OF 6)	1	
DRAFTING TECHNOLOGY TRACK				
		Elective		OR
		Elective (CAT III 3 of 6)	3	
Spring Semester				
DRFT	205	Machine Drafting		3
DRFT	244	Topographic Drafting/GIS Apps.		3
CIS	171	Desktop Sml Bus Dbases/Access		3
Select one of the following tracks				
ADDA DESIGN DRAFTING TRACK				
		Elective CAT V Hnd(3)	3	
CET	181	Surveying		3
DRAFTING TECHNOLOGY TRACK				
		Elective CAT V Hnd(3)	3	OR
		Elective		4

JUNIOR YEAR			
Fall Semester			
DRFT	336	Process Piping	3
ENGL	112	Written Communication II	3
MFGT	341	CAD/CAM Applications	3
		**Electives (300-400 level)	3
ART		Gen Ed Dist (Area A)	3
Spring Semester			
DRFT	416	Industrial CAD Modeling	3
MFGT	342	CAD/CAM II	3
DRFT	356	CAD Presentation	4
ENGL	366	Technical Writing & Editing	3
SENIOR YEAR			
Fall Semester			
DRFT	409	Industrial Product Design	3
MFGT	427	Quality Assurance	3
DRFT	328	Technical Illustration	3
		Elective	3
		Gen Ed Dist (Area B)	3
Spring Semester			
DRFT	456	CAD Presentation II	3
DRFT	457	Architectural CAD	3
		Gen Ed Dist (Area B)	3
		Elective	1
		Elective (300-400)	3

15
13
15
13
120

JUNIOR YEAR			
Fall Semester			
DRFT	336	Process Piping	3
ENGL	112	Written Comm II CAT I COMM 3 OF 6	3
MFGT	341	CAD/CAM Applications	3
		**Electives (300-400 level)	3
ART		CAT VII FINEARTS (3)	3
Spring Semester			
DRFT	316	Industrial CAD Modeling	3
MFGT	342	CAD/CAM II	3
DRFT	356	CAD Presentation	4
ENGL	366	Technical Writing & Editing	3
SENIOR YEAR			
Fall Semester			
DRFT	409	Industrial Product Design	3
MFGT	427	Quality Assurance	3
DRFT	428	Technical Illustration	3
		Elective	1
		Cat. =VIII - Soc Sci (3)	3
Spring Semester			
DRFT	456	CAD Presentation II	3
DRFT	457	Architectural CAD	3
		Cat. IV - Soc Sci (3)	3
		Cat. VI- CULT DIV (3)	3
		Elective (300-400)	3

using DRAFTING TECH track 34 86
120
using ADDA track 33 87
upper division 120

DRAFTING BS gen ed prog rev 05

Course Description (include prerequisites):

The application of pictorial representations to describe external and internal design features of manufactured components, assemblies, and completed products; and construction projects.

Prerequisite: DRFT 112 Co-req: Fac: 615.09

Course Objective:

This course provides the successful student with advanced theory and practices in Technical Illustration. Student outcomes shall include demonstrated skills in, and functional knowledge of the following areas:

- 1) Descriptive Sketching Principles
- 2) Axonometric Principles
- 3) Drawing principles for reproduction (printing)
- 4) Presentation principles for product users
- 5) Assembly instructions and diagrams
- 6) Color principles and applied theory
- 7) Graphic Toning techniques
- 8) Copy Scale and half tone principles
- 10) Parts illustrations for service trade

Non-Grade/Additional Prerequisite Required:

Non-Grade/Additional Library Resources Required:

Special Facility Needs Required: Laboratory space, specialized lab, rooms to facilitate large groups.

4780011 CAD102

DRFT 112 is 120 credits

COURSE REVISION FORM

NEW ___ DROPPED ___ MAJOR REVISION X FOR INFORMATION ONLY ___

College COTS Program Area Design Drafting Technology Date 1/20/05

Submitter [Signature] Chair/Dean [Signature] Date 2.15.05
Signature Signature (indicate "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
Changing the Course Number will eliminate confusion for students

College: College of Technical Sciences
Program Area: Design Drafting Technology
Date: February 1998

Course pref and no.: DRFT-328 **Change to DRFT 428**
Course title: Technical Illustration
Credits: 3
Lecture: _____
Lecture/lab: X
Contact Hrs. Lec: 1
Contact Hrs. lab: 4
Required By: Design Drafting Technology, B.S.
Design Drafting Technology Minor (selective)

Catalog Course Description (include prerequisites):

The application of pictorial representations to describe external and internal design features of manufactured components, subassemblies, and completed products; and construction projects.

Prerequisite: DRFT 132 **Course Fee: \$15.00**

Course Objectives:

This course provides the successful student with advanced theory and practices in Technical Illustration. Student outcomes shall include demonstrated skills in, and fundamental knowledge of the following topics:

- 1) Descriptive Sketching Principles
- 2) Axonometric Principles
- 3) Drawing principles for reproduction (printing)
- 4) Presentation principles for product users
- 5) Assembly instructions and diagrams
- 6) Color principles and applied theory
- 7) Graphic Toning techniques
- 8) Grey Scale and half tone principles
- 10) Parts illustrations for service trades

New and/or Additional Equipment Required:

New and/or Additional Library Resources Required:

Special Facility Needs Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer labs):

BC 203/024 CAD lab

COURSE REVISION FORM

NEW ___ DROPPED ___ MAJOR REVISION X FOR INFORMATION ONLY ___

College COTS Program Area Design Drafting Date Feb 2005

Submitter _____ Chair/Dean _____ Date _____
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

Change credits from 4 to 3

Due to structuring of the course and advances in technology the number of contact hours can be reduced. Furthermore this allows for a more seamless integration of the gen. ed. Changes.

Department: College of Technical Sciences
Program Area: Design Drafting
Date: February 1998
Course pref and no.: DRFT 131
Course title: Technical Graphics I
Credits: Change 4 credits to **3 credits**

Required By: Engineering Technology: Civil Engineering Technology, Associate
Engineering Technology: Civil Engineering Technology, B.S.
Engineering Technology: Civil Engineering Technology Minor
Design Drafting, Associate
Design Drafting Technology, B.S.
Design Drafting Technology Minor
Plumbing AAS
IT Teaching and Non-Teaching BS

Lecture:

Lecture/lab: X

Contact Hrs. lecture: 1

Contract Hrs. lab: 4

Catalog Course Description (include prerequisites):

The student will gain knowledge and skills needed to produce drawings and understand basic drafting theory. Topics developed on the board will include sketching, lettering, instruments, scaling, applied geometry, orthographic projection, dimensioning, applied technical mathematical relations, primary auxiliary views, sections, threads, and weld symbols.

Course Fee: \$15.00

Course Objectives:

1. Provide exercises that will reflect the importance of drafting in relation to the industrial world.
2. Develop and refine graphics skills in:
 - a. lettering
 - b. freehand sketching
 - c. drawing layout
 - d. graphics skills and techniques
3. Conduct classroom activities and graphics exercises in a manner which emphasizes an appreciation of the relationship of time and its effect on costs.
4. Introduce the student to graphics symbols, standards, metrification, codes.
5. Perform exercises in geometric construction.
6. Develop an understanding and appreciation of dimensioning.
7. Develop an understanding of the contents of the working drawing.

New and/or Additional Equipment Required:

New and/or Additional Library Resources Required:

Special Facility Needs Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer labs):

Drft131crsrev05

ACADEMIC SENATE PROPOSAL TRACKING SHEET
Created By Academic Senate Secretary On Canvas Course Pages
Approved by the Academic Senate Secretary On Canvas Course Pages
COURSE REVISION FORM

NEW ___ DROPPED ___ MAJOR REVISION X FOR INFORMATION ONLY ___

College COTS Program Area Design Drafting Technology Date 1/20/05

Submitter [Signature] Chair/Dean [Signature] Date 5-15-05
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
Changing the Course Number will eliminate confusion for students

College: College of Technical Sciences
Program Area: Design Drafting
Date:
Course pref and no.: DRFT 416 - Change to DRFT 316
Course title: Industrial CAD Modeling
Credits: 3
Required by: Design Drafting Technology B.S.
Lecture:
Lecture/lab: X
Contract hrs. lecture: 1
Contact hrs. lab: 4

Current/proposed Catalog Description (Include all prerequisites:)

The student will explore advanced computer modeling and techniques used in industrial design. Students will experiment with various applications in solving assigned problems. Prerequisite: DRFT 256, DRFT 356, or consent of instructor. **Course Fee: \$10.00**

Course Outcome Objectives:

1. Further enhance the understanding of CAD applications in regards to modeling and design.
2. Develop and refine skills in:
 - a. modeling
 - b. mechanical design
 - e. parametric design and modeling
3. Conduct classroom activities and exercises in a manner that emphasizes an appreciation for the relationship of time and its effect on costs.
4. Introduce the student to alternative design and modeling tools.
5. Develop an understanding of the contents of parametric design and modeling.

New instructional Resources needed (including: library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.

DRFT 416 to 316 courserevform 04