

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>01-28</u>	Title: <u>Design Marketing B.S. Program Changes</u>
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(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)

Received by ACAD Senate Forwarded to Teacher Ed Council Forwarded to Gen Ed Committee Returned to ACAD Senate Forwarded to Curriculum Committee Returned to ACAD Senate for Vote Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting Forwarded to Provost for Approval/Disapproval Forwarded to Chancellor for Approval/Disapproval Copies sent to originating college and registrar's office C:/data/proposaltracking sheet ACAD 10 10 01	Date <u>4/18/02</u> <u>NA</u> <u>NA</u> <u>4/18/02</u> <u>9/18/02</u> <u>12/12/02</u> <u>12/18/02</u> <u>1/28/03</u> <u>1/31/03</u> <u>2/11/03</u> <u>2/13/03</u>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Approved _____</td> <td style="width: 50%; text-align: center;">Disapproved _____</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center;">Signature _____</td> <td style="border-top: 1px solid black; text-align: center;">Date _____</td> </tr> <tr> <td style="text-align: center;">Approved _____</td> <td style="text-align: center;">Disapproved _____</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center;">Signature _____</td> <td style="border-top: 1px solid black; text-align: center;">Date _____</td> </tr> <tr> <td style="text-align: center;">Approved _____</td> <td style="text-align: center;">Disapproved _____</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center;">Signature _____</td> <td style="border-top: 1px solid black; text-align: center;">Date _____</td> </tr> <tr> <td style="text-align: center;">Approved _____</td> <td style="text-align: center;">Disapproved _____</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center;">Signature _____</td> <td style="border-top: 1px solid black; text-align: center;">Date _____</td> </tr> <tr> <td style="text-align: center;">Approved _____</td> <td style="text-align: center;">Disapproved _____</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center;">Signature _____</td> <td style="border-top: 1px solid black; text-align: center;">Date _____</td> </tr> </table>	Approved _____	Disapproved _____	Signature _____	Date _____	Approved _____	Disapproved _____	Signature _____	Date _____	Approved _____	Disapproved _____	Signature _____	Date _____	Approved _____	Disapproved _____	Signature _____	Date _____	Approved _____	Disapproved _____	Signature _____	Date _____
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PROGRAM/DEGREE REVISION FORM

NEW DROPPED MAJOR REVISION X FOR INFORMATION ONLY
 College College of Technical Sciences Program Area Design Drafting B.S. Date 3-25-02

Submitter *Gregory D. Keel* Chair/Dean *Gregory D. Keel* Date 4/18/02
signature signature

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

To adjust the curriculum to better meet the needs of graduates and stay current with modern industrial technology

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

FRESHMAN

Courses to be taken 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
Courses to be taken 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
<i>MATH 125 Trigonometry (Area C)</i>	<i>2</i>
EET 110 Electronics Survey I	3
	16 17

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
Courses to be taken 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
<i>MATH 125 Trigonometry (Area C)</i>	<i>2</i>
EET 110 Electronics Survey I	3
	16 17

SOPHOMORE

Courses to be taken Fall Semester

DRFT 256 3D CAD	3
MFGT 200 Mfgt Processes	3
DRFT 201 Residential Drafting	3
Select one of the following tracks	
ADDA DESIGN DRAFTING TRACK	
CET 221 Engineering Mechanics	3
<i>PHYS 231 Fund of Physics I (Area C)</i>	<i>3</i>
<i>PHYS ## Fund of Physics I lab (Area C)</i>	<i>1</i>
DRAFTING TECHNOLOGY TRACK	
<i>PHYS 114 Found. of Phys. Sci.(Area C)</i>	<i>4</i>
Advisor Approved Elective	3

Courses to be taken Spring Semester

DRFT 205 Machine Drafting	3
DRFT 244 Topographic Mapping & GIS Applic.	3
CIS 171 Database Level I	3
Select one of the following tracks	
ADDA DESIGN DRAFTING TRACK	
Advisor Approved Elective	3
CET 181 Surveying	3
DRAFTING TECHNOLOGY TRACK	
Advisor Approved Elective	3
Advisor Approved Elective	3
	16 15

DRFT 256 3D CAD	3
MFGT 200 Mfgt Processes	3
DRFT 201 Residential Drafting	3
Select one of the following tracks	
ADDA DESIGN DRAFTING TRACK	
CET 221 Engineering Mechanics	3
<i>PHYS 231 Fund of Physics I (Area C)</i>	<i>3</i>
<i>PHYS 234 Fund of Physics I lab (Area C)</i>	<i>1</i>
DRAFTING TECHNOLOGY TRACK	
<i>PHYS 114 Found. of Phys. Sci.(Area C)</i>	<i>4</i>
Elective	3

DRFT 205 Machine Drafting	3
DRFT 244 Topographic Mapping & GIS Applic.	3
CIS 171 Database Level I	3
Select one of the following tracks	
ADDA DESIGN DRAFTING TRACK	
Elective	3
CET 181 Surveying	3
DRAFTING TECHNOLOGY TRACK	
Elective	3
Elective	3
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JUNIOR

Courses to be taken 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		<i>Gen Ed Dist (Area A)</i>	3

Courses to be taken Spring Semester

DRFT	416	Industrial CAD Modeling	3
MFGT	342	CAD/CAM II	3
DRFT	356	CAD Presentation	4
		<i>Gen Ed (Area A-B Hum/Soc Sci)</i>	3
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DRFT	336	Process Piping	3
ENGL	112	Written Communication II	3
MFGT	341	CAD/CAM Applications	3
		**Electives (300-400 level)	3
ART		<i>Gen Ed Dist (Area A)</i>	3

DRFT	416	Industrial CAD Modeling	3
MFGT	342	CAD/CAM II	3
DRFT	356	CAD Presentation	4
ENGL	366	Tech Writing & Editing (Area A)	3
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SENIOR

Courses to be taken Fall Semester

DRFT	409	Industrial Product Design	3
CET	385	Highway Design & Cnst	4
IET	480	Senior Project I	1
DRFT	328	Technical Illustration	3
		Elective	3
		<i>Gen Ed (Area A-B Hum/Soc Sci)</i>	3

Courses to be taken Spring Semester

DRFT	456	CAD Presentation II	3
IET	481	Senior Project II	2
DRFT	457	Architectural CAD	3
		<i>Gen Ed (Area A-B Hum/Soc Sci)</i>	3
			17 11

DRFT	409	Industrial Product Design	3
MFGT	427	Quality Assurance	3
DRFT	328	Technical Illustration	3
		Elective	3
		<i>Gen Ed (Area B - Soc Sci)</i>	3

DRFT	456	CAD Presentation II	3
		Elective	1
		Elective	3
DRFT	457	Architectural CAD	3
		<i>Gen Ed (Area B - Soc Sci)</i>	3
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COURSE FORM

Department: College of Technical Sciences: Industrial & Engineering Technology
Program Area: Engineering Technology: Manufacturing Technology
Date: February 1998

Course prefix and no.: MFGT 427
Course title: Quality Assurance
Credits: 3 (sem)

Required By: Engineering Technology: Manufacturing Technology, B.S., No Minor
Engineering Technology: Manufacturing Technology (CAD/CAM, Metals (Selective),
Manufacturing Automation) Minor
Engineering Technology: Civil Engineering Technology, B.S.
Engineering Technology: Electronics Engineering Technology, B.S. No Minor

Lecture: X

Lecture/lab:

Contact hrs. lecture: 3 hrs/wk

Contact hrs. lab:

Catalog Course Description (include prerequisites):

Industrial methods of insuring quality in manufacturing through application of codes and standards, sampling techniques, control charts and implementation of a documentable quality assurance program.

Prerequisite: MATH 110 or higher.

Course Objectives:

Instructional Objectives:

1. Be able to define quality control and statistical process control.
2. Be able to prepare Pareto charts, flow charts, and cause and effect diagrams.
3. From a group of data be able to prepare information on average, mean, range, and standard deviation.
4. From a group of data be able to identify and explain attributes of the data.
5. From a group of data be able to prepare process charts.
6. Be able to collect data through the use of several measurement devices.
7. From information on a process chart be able to identify quality information in the manufacturing process and/or describe corrections to the process.
8. Be able to compare information gained from a process chart and/or control charts to specific qualities of the product.
9. Be able to relate engineering data assigned to the product and relate that to the process information.
10. Be able to relate process information to cost analysis of the manufacturing process.

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):

automation lab

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