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.

registrar's office

C/data/proposaltracking sheet ACAD 10 10 01

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

Chair/Dean of the submitting college who then notifies the originator.)

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

***(If a proposal is disapproved at any level, it is returned through the Academic Senate secretary to the

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

(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 Approved Disapproved Signature Date Forwarded to Gen Ed Committee Approved Disapproved Signature Date Returned to ACAD Senate Forwarded to Curriculum Committee Disapproved Returned to ACAD Senate for Vote Disapproved Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting Signatur Forwarded to Provost for Approval/Disapproval Disapproved Approved Forwarded to Chancellor for Approval/Disapproval

Copies sent to originating college and

5/28/23 Signature Approved sapproved Copies sent to originating college and

PROGRAM/DEGREE REVISION FORM

	NEW	DROPPED	MAJOR REVISION	Х	FOR INFORMATI	ON ONLY
College	College of	Technical Sciences				Date 3 -10-03
	Submitt	er 71. (1 A.K.	_Chair/Dean 🔬	an 6	Date _	3.31.03
		signature) [signatore	
	Please	e provide a brief ex	planation & rationa	l for th	ne proposed revisi	on(s)

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 YEAR		FRESHMAN YEAR	
	Courses to be taken Fall Semester		Courses to be taken Fall Semester	
CIS	110 Introduction to Computers	3	IT 100 Intro to Technology	3
DRFT	131 Graphics I	4	DRFT 131 Graphics I	4
ENGL	111 Written Communication I	3	ENGL 111 Written Communication I	3
ΙΤ	110 Production Technology	3	IT 109 Intro to Woodworking	3
ΙT	120 Communication Technology	3	1600	
			W V	
	Courses to be taken Spring Semester		Courses to be taken Spring Semester	
CET	209 Introduction to Woodworking	3	IT 130 Construction Technology	3
DRFT	156 Introduction to CAD	3	DRFT 156 Introduction to CAD	3
EET	110 Electronics Survey I	3	ENGL 112 Written Communication II	3
MATH	110 Math for Liberal Arts	4	CIS 110 Introduction to Computers	3
8.4.6.T.L.1	OR	_	METL	
MATH	112 College Algebra	3		
METL	155 Machining Processes	3	MEN WELD 1140 Intro to Welding & Cutting	3
TECH	100 Industrial Safety/Waste Mgmt.	2	IT 111 Industrial Safetl/Waste Mgmt	2
	SOPHOMORE YEAR		SOPHOMORE YEAR	
	Courses to be taken Fall Semester		Courses to be taken Fall Semester	
CET	173 Arch. Cnst & Materials	3	MF6T MATH 110 Math for Liberal Arts 200 Mfgt. Processes & Materails	4
IT	210 Energy/Power Technology	3	250 mgt. 1 1000000 d. matorano	3
METL	140 Intro to Welding & Cutting	3	METL# 155 Machining Processes	3
SPCH	141 Introduction to Speech	3	IT 209 Furniture & Cabinetmaking	3
	Minor	3		
	Courses to be taken Spring Semester		Courses to be taken Spring Semester	
AUTO		4	AUTO 128 Engines	4
CET	213 Carpentry	3	EET 110 Electronics Survey I	3
IT	130 Construction Technology	3	SPCH 141 Introduction to Speech	3
ENGL	112 Written Communication II	3 3	OR	2
	Minor	3	SPCH 142 Interpersonal communication	3
			Minor	3 3
			Gen Ed (Area C)	3
	JUNIOR YEAR		JUNIOR YEAR	
	Courses to be taken Fall Semester		Courses to be taken Fall Semester	
CIS	360 Business Telecomm. & Networking	3	Courses to be taken ran semester	
EET	305 Digital Systems	3	METLIK 315 Metallurgy	3
	Suggested Tech Course	3	EET 305 Digital Systems	3
	Lab Science (Area C)	3	ENGL 366 Tech Writing & Editing (Area A)	3
	Minor	3	Minor	3
	Courses to be taken Spring Semester	0	Minor	3
EET	450 Adv. Digital Systems	3	Courses to be taken Spring Semester	0
	Minor	3	EET 74 308 Industrial Electronics	4
	Gen Ed Dist (Area A)	3	Minor	3
	Gen Ed (Area B)	6	Minor	3
			Gen Ed (Upper Div Area B)	3
			Gen Ed (Upper Div Area C)	3
			Gen Eu (Opper Div Area C)	J

SENIOR YEAR			SENIOR YEAR	
Courses to be taken Fall Semester			Courses to be taken Fall Semester	
Gen Ed Area A (300-400)	3	MF6T-H	341 CAD/CAM I	3
Elective	3	BUS	300 Mgmt. In Organizations	3
BUS 300 Mgmt. In Organizations	3	MF6T X	427 Quality Assurance	3
MFGT 427 Quality Assurance	3	WL91,	Minor	3
Minor	3		Gen Ed (Area A)	3
Courses to be taken Spring Semester Minor (Upper Division) Minor (lower Division)	8 3	MF6TA	Courses to be taken Spring Semester 342 CAD /CAM II Minor Minor Elective Gen Ed (Area B)	3 3 3 3
prog rev industrial tech bs 02 3 03	120)		120

PROGRAM/DEGREE REVISION FORM

NEW	DROPPED	MAJOR REVISION	X	FOR INFORMA	TION ONLY
		ces Program Area			
Subm	itter Jh. d. (Su	Chair/Dean	ry O	Date	3-31.03
		explanation & rationa			

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 YEAR Courses to be taken Fall Semester		FRESHMAN YEAR Courses to be taken Fall Semester	
			2		3
	CIS	110 Introduction to Computers	3	IT 100 Intro to Technology	3
	CET	209 Introduction to Woodworking	3	IT 109 Intro to Woodworking	
	DRFT	131 Graphics I	4	DRFT 131 Graphics I	4
	EDUC	100 Foundations of Education	3	ENGL 111 Written Communication I	3
	IT	110 Production Technology	3	Gen Ed	3
	IT	120 Communication Technology	3		
	C	Courses to be taken Spring Semester		Courses to be taken Spring Semester	
	ENGL	111 Written Communication I	3	IT 130 Construction Technology	3
	DRFT	156 Introduction to CAD	3	DRFT 156 Introduction to CAD	3
•			3	ENGL 112 Written Communication	3
	EET	110 Electronics Survey I		MATH 110 Math for Liberal Arts	4
	MATH	110 Math for Liberal Arts OR	4	OR	**
	MATH	112 College Algebra	3	MATH 112 College Algebra	3
	METL	155 Machining Processes	3	ATMETL140 Intro to Welding & Cutting	3
	EDPY	215 Intro to Ed. Psychology	3	ymmet a master trouming a saming	
		2 to mile to Lat t opening,			
		SOPHOMORE YEAR		SOPHOMORE YEAR	
	Co	ourses to be taken Fall Semester		Courses to be taken Fall Semester	
	CET	173 Arch. Cnst & Materials	3		
	IT	210 Energy/Power Technology	3	MF6T200 Mfgt. Process & Materials	3
	METL	140 Intro to Welding & Cutting	3	ガ M ET L 155 Machining Processes	3
	SPCH	141 Introduction to Speech	3	IT 209 Furniture & Cabinetmaking	3
	PSYC	205 Human Growth/Develop. (Area B)	3	EDUC 100 Foundations of Education	3
	PSYC	205 Human Growth/Develop. (Area b)	3		3
				PSYC 205 Human Growth/Develop. (Area B) Gen Ed	3
				Gen Ed	3
	С	Courses to be taken Spring Semester		Courses to be taken Spring Semester	
	AUTO	128 Engines	4	AUTO 128 Engines	4
	CET	213 Carpentry	3	EET 110 Electronics Survey I	3
	IT	130 Construction Technology	3	SPCH 141 Introduction to Speech	3
	ENGL	112 Written Communication	3	OR	
		235 Prin. Of Health/Sub Abuse	3	SPCH 142 Interpersonal Communication	3
	HPE	235 Pilin. Of Health/Sub Abuse	3	EDPY 100 Intro to Ed Psych	3
				*	3
				HPE 235 Prin. Of Health/Sub Abuse Gen Ed	3
				Gen Ed	5
		JUNIOR YEAR		JUNIOR YEAR	
		Courses to be taken Fall Semester		Courses to be taken Fall Semester	
	CIS	360 Bus. Telecomm. & Netwrk (Area C)	3	EDUC 376 Assessment	2
	EDPY	350 Ed. Psych. Exceptional Children	3	EDPY 350 Ed. Psych. Exceptional Children	3
	VOED	350 Prin. Of Applied Technology	3	CIS 320 Computers In Education	3
•		Lab Science (Area C)	3	Technical Endorsement	6
		Gen Ed (Area A - Hum.)	3	Gen Ed	3
		Suggested Tech Course	3		
			_		

Courses to	be taken Spring Semester		Courses to be taken Spring Semester	
EDUC 455 Gene	eral Teaching Methods	3	EDUC 321 Integrating Technology into Ed	1
VOED 360 Anal	ysis/Prep of Inst.Materials	3	VOED 350 Prin. Of Applied Technology	3
EDUC 445 T.,R,	W, CT Across the Curric	2	EDUC 300 Intro. Curric. Planning/Practice	3
EDUC 300 Intro	. Curric. Planning/Practice	3	EET JT 308 Industrial Electronics	4
Gen	Ed (Area A - Hum.)	3	Gen Ed	3
			Technical Endorsement	3
SEI	NIOR YEAR		SENIOR YEAR	
Courses t	o be taken Fall Semester		Courses to be taken Fall Semester	
Gen	Ed (Area B - Soc Sci)	3	EDUC 445 T.,R, W, CT Across the Curric	2
Sugg	jested Tech Course	3	EDUC 455 General Teaching Methods	3
Sugg	jested Tech Course	4	VOED 360 Analysis/Prep of Inst.Materials	3
EDUC 321 Integ	rating Technology into Ed	1	VOED 370 Organizing/Teaching App Tech	3
EDUC 376 Asse	ssment	2	Gen Ed	3
VOED 379 Orga	nizing/Teaching App Tech	3		
Courses to	be taken Spring Semester		Courses to be taken Spring Semester	
EDUC 450 Sec.	Ed Pract & Seminar	12	EDUC 450 Sec. Ed Pract & Seminar	12

prog rev industrial tech ed bs 3/31/03

Man School Commence

State

128

NEW DROPPED	MAJOR REVISIO	N FOR INFORMATION ONLY	
College College of Te	echnical Sciences_ Progra	m Area <u>Industrial Technology</u> Date 3-30-03	L
Submitter	Chair/Dean	Date 3-3	1-03
Signature		Signature (indicates "college" level approval	.)

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

Change IET prefix to IT prefix change title to Intro to Technology

Please provide the following information:

Department:

College of Technical Sciences: Industrial Technology

Program Area:

Industrial Technology

Date:

March 2003

Course pref and no.:

IET 100 new prefix IT 100

Course title:

Introduction to Industrial & Engineering Technology Introduction to Technology

Credits:

3 (sem)

Required by:

Engineering Technology: Electronics Engineering Technology AAS.

Engineering Technology: Civil Engineering Technology AAS.
Engineering Technology: Civil Engineering Technology B.S.
Engineering Technology: Civil Engineering Technology Minor
Engineering Technology: Land Survey Technology (GIS) Certificate

Computer Information Systems AAS

Computer Engineering Technology AAS, BS.

Industrial Technology BS Industrial Technology ED BS

Selective in: Elective in:

General Educ: Lecture:

X

Lecture/lab:

Lecture/lab

Contact hrs. lecture: 3 hrs/wk

Contact hrs.Lab:

Current Catalog Description (include all prerequisites):

This course is a survey course designed to familiarize students with the educational requirements, talents, and responsibilities for careers related to industrial and engineering technology. The content of this course should provide the framework for materials to be presented in future math, science, industrial, and engineering technology courses. Course fee \$6.00

Course Objectives:

Upon completion of this course, the student will be able to:

- 1. Compare and select an appropriate field within industrial and engineering technology.
- 2. Compare and select an appropriate specialty within industrial and engineering technology.
- 3. Explain the roles and responsibilities of the engineer and technologist in our present society.
- 4. Distinguish the difference in the educational requirements of engineering and technologies majors.
- 5. Understand the history of engineering and technology.
- 6. Be familiar with the professional organizations and codes of ethics related to their chosen field.
- 7. Be able to perform research, problem solving and report techniques to departmental standards.
- 8. To begin the development of skills necessary for a team based approach to the solution of open-ended problems.
- 9. To utilize the types of communications skills important in effective design projects.

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): IET 100 to IT 100 course rev form

NEW I	DROPPED MAJOR REVISION _X_ FOR INFORMATION ONLY						
College College of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03							
Submitter Signature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)						
Please provide a brief of Change TECH Please provide the follows:	•						
Department: Program Area: Date:	College of Technical Sciences: Industrial Technology Department Industrial Technology March 2003						
Course pref and no.: Course title: Credits:	TECH 100 new prefix IT (prefer IT 111) Industrial Safety/Waste Management 2						
Required by:	Industrial Technology BS Industrial Technology ED BS Civil engineering Technology AAS, BS Ag Operations Tech BS						
Selective in: Elective in: General Educ:							
Lecture: Lecture/lab: Contract hrs. lecture: Contact hrs. lab:	X 2						

Catalog Description (Include all prerequisites:)

A course designed to familiarize the student with proper safety practices and procedures. Course content will include protective clothing, handling of hazardous materials, OSHA regulation, workmans comp., and first aid. Also, safety practices in using hand and power tools, scaffolds and ladders, chains and cables, compressed gasses, proper storage of tools and chemical, and handling of hazardous waste will also be addressed.

Course Outcome Objectives:

awareness of safety issues proper use of tools and equipment understanding of OSHA regulations and its role in Industrial Safety understanding of proper hazardous waste handling and disposal procedures.

New instructional Resources needed (including: library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources. Tech 100 to it 100

Submitter	Chair/Dean	Date 3-31-03
Signature	Signature (i	ndicates "college" level approval)
Change course	replanation & rationale for the proposed reprefix CET 209 to IT 209 (preferred to 209 from catalog	* *
Please provide the follo	wing information:	
Department: Program Area: Date:	College of Technical Sciences: Industria Industrial Technology March 2003	l Technology
Course pref and no.: Course title: Credits:	CET 209 IT 209 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Required by:	Industrial Technology BS Industrial Technology ED BS	
Selective in: Elective in: General Educ:		
Lecture: Lecture/lab: Contract hrs. lecture: Contact hrs. lab:		
A study in the i	ription (Include all prerequisites:) se of equipment and procedures used in w	vood construction. Areas of concentration

A study in the use of equipment and procedures used in wood construction. Areas of concentration will be wood and related materials, joint design, adhesives, fasteners, hand tools, machine tools, setup and procedures, and safety. Emphasis will be on dedicated objectives with a final project.

Course Outcome Objectives:

New instructional Resources needed (including: library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources. Cet 209 to IT 209 course rev form

NEW _X_ I	DROPPED MAJOR REVISION FOR INFORMATION ONLY
College Colleg	e of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter Signature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
	xplanation & rationale for the proposed revision(s): IT 209 (prefer # 209) Furniture & Cabinetmaking
Please provide the follo	wing information:
Department: Program Area: Date:	College of Technical Sciences: Industrial Technology Industrial Technology March 2003
Course pref and no.: Course title: Credits:	IT 209 Furniture & Cabinetmaking 3
Required by:	Industrial Technology BS Industrial Technology ED BS
Selective in: Elective in: General Educ:	
Lecture:	
Lecture/lab:	X
Contract hrs. lecture: Contact hrs. lab:	1 4
Students will be introdu Course Outcome Objective Students will complete	cription (Include all prerequisites:) aced to the principles and practices of furniture and cabinet making. ectives: selected projects using assigned processes. ources needed (including: library materials, special equipment, and facilities).

Please note: approval does not indicate support for new faculty or additional resources.

none

IT 209 new course rev form

, NEW DR	OPPED MAJOR REVISIONX_ FOR INFORMATION ONLY
College Col	llege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter Signature	
Change MFG	xplanation & rationale for the proposed revision(s): P and EET (dual listed course) prefix to ET prefix F 308 And EET 308 from catalog
Please provide the follo Department: Program Area: Date:	owing information: College of Technical Sciences: Industrial Technology Industrial Technology March 2003
Course pref and no.: Course title: Credits:	EET/MEGT 308 new prefix IT 308 Industrial Electronics 4 (sem)
Required by:	Industrial Technology BS Industrial Technology Ed BS AOT BS Ag Tech AAS
Selective in: Elective in: General Educ: Lecture:	
Lecture/lab: Contact hrs. lecture: Contact hrs.Lab:	X 3 hrs/wk 2 hrs/wk
This course foc	ription (include all prerequisites): uses on basic power circuits and machines. Topics include power distribution systems, D, power control circuits, transducers, and industrial process control. Course fee \$8.00

Course Objectives:

The student will have demonstrated the ability to:

- 1. Identify parts of a control circuit.
- 2. Discuss the operation of selected control devices.
- 3. Explain the operation of industrial power supplies, invertors, & connectors.
- 4. Understand & construct open and closed loop systems.
- 5. Explain the operation of selected sensors.
- 6. Examine the characteristics of selected Ac & DC motors.
- 7. Perform experiments to verify theoretical concepts.

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):

Mfgt 308 to IT 308

NEW	DROPPED MAJ	OR REVISION _X_	FOR INFORMATIO	N ONLY
College Co	llege of Technical Scien	nces_ Program Area _Ir	dustrial Technology_	Date 3-30-03
Submitter		Chair/Dean		Date 3-31-03
Signatur		Signature (in	dicates "college" leve	
Please provide a brief of	explanation & rationale	for the proposed revision	on(s):	
Change MET	prefix to II prefix	course description w	ording correction	
O	er from 215 to 315			
Please provide the follo				
Department:	College of Technical S		chnology	
Program Area:	Industrial Technology			
Date:	March 2003			
	3XX			
Course pref and no.:	METL 215 new pred		315 number)	
Course title:	Metallurgy and Manus	acturing Materials		
Credits:	3 (sem)			
Required by:	Railroad Operations &	Maintenance A.S.		
required by:	-	gy: Civil Engineering	Γechnology B.S.	
General Education:	D			
Lecture:				
Lab:	X			
Contact Hrs. Lecture:	2 hrs./wk			
Contact Hrs. Lab:	2 hrs./wk			
Current Catalog Course	e Description (include p	rerequisites):		
A study of met conditions. The	als, their composition, sais course also deals with tics, adhesives, compositions	tructure and properties h failure analysis, destr	uctive and non-destruc	
Cerumies, pius	nos, adnosivos, compos.	icos, una wood win oo c		
	rse Description (include			
This course co	oncerns a study of metal	s that includes their co	mposition, structure, p	physical properties, and
	when exposed to different active testing welding ma			ilure analysis, destructiv
01: "	_			
Course Objectives:	adaa and ahittiin.			
	edge and skill in:	muchant hantima		
	Identification eatment	preheat heating		
		iron carbide system hardness testing		
etchin	analysis	naimicss testing		
Ciciliii	E			

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):

metl 215 to it 215 course rev form

....

	COURSE REVISION FORM		
NEW	DROPPED _X_ MAJOR REVISION FOR INFORMATI	ON ONLY	
College College o	f Technical Sciences Program Area Industrial Technology	Date 3-30-03	
	Chair/Dean	_ Date <u>3-31-03</u>	
Signature	Signature (indicates "college" level a	ipproval)	
Drop METL 1			
	se from catalog		
Please provide the follo	owing information:		
Department:	College of Technical Sciences: Industrial & Engineering Technol	ngv	
Program Area:	Metals Technology		
Date:	January 1998		
Course pref and no.:	METL 125		
Course title:	Automotive Machining and Tool Technology		
Credits:	3 (sem)		
Required by:	Metals Technology, Associate		
	Automotive Technology, B.S., Broadfield, No Minor Required		
•	Automotive Technology Minor		
	Machining Certificate		
Lecture:			
Lecture/Lab:	X		
Contract Hrs. Lecture:			
Contact Hrs. Lab:	4 hrs/wk		
Catalog Course Descrip	ption (include prerequisites):		

An introductory course designed to acquaint the technology student with the tools, equipment, safety practices and materials utilized in a shop setting. Topics studied will include precision measurement and the identification, maintenance, and the safe use of manual and automotive machine tools, including cylinder boring bars, crankshaft grinder, honing machine, thread restoring tools, gear pullers, presses, and etc.

Course Objectives:

- 1.) To identify and solve problems associated with the safe set up, operation and inspection of automotive machine tools.
- To develop the skills necessary to use a variety of hand metalworking tools.

New and/or Additional Equipment Required:

Replacement and updating of equipment as needed.

New and/or Additional Library Resources Required:

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

Room MT102 (Machine Shop) in the Metals Technology building

C:\data\00curric\metl\metl125courseform00 May 00

NEW D	ROPPED _X_ MAJOR RE	VISION	_ FOR INFORMATION	ONLY
College College o	of Technical Sciences Pr	rogram Area	Industrial Technology	Date 3-30-03
Submitter	Chair/De	an		Date 3-31-03
Signature		Signature ((indicates "college" level a	ipproval)
Please provide a brief explanation & rationale for the proposed revision(s): Drop METL 204 remove course rescription from catalog Please provide the following information:				
Department: Program Area: Date:	College of Technical Scien Metals Technology February, 1998	ces: Industri	al & Engineering Technol	ogy
Course pref and no.: Course title: Credits:	METL 204 Machinery's Handbook 2 (sem)			
Required by:	Metals Technology, Associ Engineering Technology: I Machining Certificate Railroad Maintenance & O	Manufacturin		AD,CAM)
Lecture: Lab:	X			
Contact Hrs. Lecture: Contact Hrs. Lab:	4 hrs/wk (offered 8 week s	ession)		
An orientation tapers, threads	ption (include prerequisites): to the theory, principles and , screw thread measurement, metric conversions.	technical dat		
engineering tra	nonstrate the ability to locate ades. onclude that the data located			-
New and/or Additional Equipment Required: N/A				
	l Library Resources Required	l:		
Special Facility Needs	Required: (laboratory space,		abs, rooms to facilitate lar	ge groups,
computer labs):				
Classroom equipped with chairs and tables. Metl 204 drop course rev form				
vicii 204 atop coatse tev tottii				

	OPPED _X MAJOR REVISION FOR INFORMATION ONLY	
NEW DR		
College College of	Technical Sciences Program Area Industrial Technology	
	To 4. 2.21 02	
Submitter	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)	
Signature	5. 5	
Please provide a brief e Drop METL 2 Please provide the follow	xplanation & rationale for the proposed revision(s): 20 remove course from catalog owing information:	
	College of Technical Sciences:Industrial & Engineering Technology	
Department:	Metals Technology	
Program Area:	February, 1998	
Date:	reoluary, 1990	
Course pref and no.:	METL 220	
Course title:	Metal Shop Management and Fabriciation	
Credits:	3 (sem)	
	No. 1. The developmen A.S.	
Required by:	Metals Technology AS Welding Certificate	
	Welding Certificate	
Lecture:		
Lecture/Lab:	X	
Contact Hrs. Lecture:	1 hr/wk	
Contact Hrs. Lab:	4 hrs/wk	
A continuation	ption (include prerequisites): n of METL 185 with emphasis on responsibilities, problems, and leadership skills in a op. Students interact with customers concerning design of projects, estimating, ordering schedules, assigning tasks, and supervising fabrication personnel. Prerequisite: METL	
Course Objectives:		
The student w	ill be expected to understand or perform:	
1. Proper	r design for strength, utility, and cost control in metal fabrication	
2. Layou	it practice in metals	
3. Corre	ct welding procedure to control distortion and provide adequate strength	
4. Bluep	rint reading, calculating bills of material, and cost of materials	
5. Select	tion of best welding process for a given job, mass production	
New and/or Additions	l Equipment Required:	
New and/or Additions	1 Library Resources Required:	
Special Facility Needs	s Required: (laboratory space, specialized labs, rooms to facilitate large groups,	
computer labs):		
shop		
metl 220 drop course	rev form	

NEW DI	ROPPED MAJOR REVISION _X_ FOR INFORMATION	NONLY	
College College	ge of Technical Sciences_ Program Area _Industrial Technology_	Date 3-30-03	
Submitter	Chair/Dean	Date 3-31-03	
Signature	Signature (indicates "college" leve	el approval)	
_	explanation & rationale for the proposed revision(s): 265 remove course from catalog owing information:		
Department: Program Area:	College of Technical Sciences:Industrial & Engineering Technology	ology	
Date:	February, 1998		
Course pref and no.: Course title: Credits: 3 (sem	Introduction to CNC/CAM		
Required by:	Metals Technology, Associate Engineering Technology: Manufacturing Technology, BS, Min Engineering Technology: Manufacturing Technology, Minor (Engineering Technology: Manufacturing Technology, Associat Machining Certificate Applied Technology Education (5-12)	CAD, CAM)	
Lecture: Lecture/Lab: Contact Hrs. Lecture: Contact Hrs. Lab:			

Catalog Course Description (include prerequisites):

An introduction to automated manufacturing, computer numerical control and computer assisted manufacturing. Instruction will include the programming, editing, setup, and operation of CNC lathes and milling machines. Prerequisite: METL 155 or consent of instructor.

Course Objectives:

- 1. Students will learn and apply the principles of manually programming CNC equipment.
- 2. Students will demonstrate the ability to modify and edit CNC programs.
- 3. Students will create CNC programs considering automated work holding devises, tool changes, sequence of operations and tool path analysis.
- 4. Computer software will be utilized by the student to appraise the benefits of Computer Assisted Manufacturing (CAM) coding verses Manual Data Programming.

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):

Metl 265 drop course rev form

NEW	DROPPED MAJOR REVISION _X_ FOR INFORMATION ONLY
College	College of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter	Chair/Dean Date <u>3-31-03</u>
Signature	Signature (indicates "college" level approval)
	nation & rationale for the proposed revision(s): remove course from catalog g information:
Department: Program Area: Date:	College of Technical Sciences: Industrial & Engineering Technology Metals Technology February, 1998
Course pref and no.: Course title: Credits:	METL 267 Mass Production 3 (sem)
Required by:	Metals Technology, Associate Engineering Technology: Manufacturing Technology Minor (CAD,CAM) (Metals) Engineering Technology: Manufacturing Technology, Associate Engineering Technology: Manufacturing Technology, B.S. Machining Certificate
Lecture: Lecture/Lab: Contact Hrs. Lecture; Contact Hrs. Lab: 4 hrs/wk	X 1 hr/wk
Emphasis is place organization and a and tracer lathes, a	(include prerequisites): production procedures associated with the manufacturing and finishing of machined products. d on design for production, sequence of operations, jig and fixture application, and production management. Work measurement, quality control, and production time analysis are recorded. Turret and computer controlled machine tools supported with CAM software, carbide tooling and tool chang d or studied. Prerequisite: METL 155 or consent of instructor.
Course Objectives: To familiarize the	student with problems and solutions encountered when mass producing a product or products.
New and/or Additional Equ	ipment Required:
New and/or Additional Lib	ary Resources Required:
Special Facility Needs Requ	tired: (laboratory space, specialized labs, rooms to facilitate large groups, computer labs):

NEW D	ROPPED _X MAJOR REVISION FOR INFORMATION ONLY		
College College	ge of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03		
Submitter	Chair/Dean Date 3-31-03		
Signature	Signature (indicates "college" level approval)		
-	explanation & rationale for the proposed revision(s):		
	270 remove course from catalog		
Please provide the foll			
Department:	College of Technical Sciences: Industrial & Engineering Technology		
Program Area:	Metals Technology		
Date:	February, 1998		
Course pref and no.:	METL 270		
Course title:	Product Development		
Credits:	4 (sem)		
Required by:	Metals Technology, Associate Engineering Technology: Manufacturing Technology, Associate Engineering Technology: Manufacturing Technology, B.S. Engineering Technology: Manufacturing Technology Minor Machining Certificate Railroad Maintenance & Operations A.S. Applied Technology Education (5-12)		
Lecture:			
Lecture/Lab:	X		
Contact Hrs. Lecture:			
Contact Hrs. Lab:			
Students will rexisting production concentrates of is performed in Course Objectives:	ption (include prerequisites): receive machining instruction in the manufacture, repair, or modification of new or cts, using all available machine tools, tooling and inspection equipment. Lecture in unusual setups requiring thought and problem solving. Job shop and prototype wo in the lab. Prerequisite: METL 155 or consent of instructor.		
New and/or Additional	l Equipment Required: l Library Resources Required: Required: (laboratory space, specialized labs, rooms to facilitate large groups,		

Metl 270 drop course rev form

NEW DROPPED	X MAJOR REVISION FOR INFORMATION ONLY
College College of Tec	hnical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
SubmitterSignature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
	explanation & rationale for the proposed revision(s): 665 remove course from catalog
Please provide the follo	owing information:
Department: Program Area: Date:	College of Technical Sciences: Industrial & Engineering Technology Engineering Technology: Manufacturing Technology February 1998
Course pref and no.: Course title: Credits:	MFGT 365 Robotics and Programmable Controllers 3 (sem)
Required By:	Engineering Technology: Manufacturing Technology, B.S., No Minor Engineering Technology: Manufacturing (Manufacturing Automation) Minor Engineering Technology: Electronics Engineering Technology, B.S., No Minor
Lecture:	X
Lecture/Lab: Contact Hrs. Lecture: Contract Hrs. Lab:	: 3
This course pro	iption (include prerequisites): ovides a study of the planning, development, and control of robotic workcells through through and management factors. Included is hands on experience with industrial robots.
New and/or Additiona	al Equipment Required: al Library Resources Required: Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer
Mfgt 365 drop course r	ev form

NEW D	ROPPED _X_ MAJOR REVISION FOR INFORMATION ONLY	
College C	ollege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-	03
Submitter Signatu	Chair/Dean Date 3- Signature (indicates "college" level approval)	31-03
	explanation & rationale for the proposed revision(s): MFGT 371 remove course from catalog	
Please provide the foll Department: Program Area: Date:	College of Technical Sciences: Industrial Technology	
Course pref and no.: Course title: Credits:	MFGT 371 Jigs & Fixtures 3	
Required by: Selective in: Elective in:	Engineering Technology: Manufacturing Technology, B.S., No Minor Engineering Technology: Manufacturing (Metals) Minor	

Current Catalog Description (Include all prerequisites:)

1

Utilizing CAD/CAM and toolmaking technology, students will prepare and assign proper cutting tools, determine sequence of operations and set-up of CNC and other machines to produce patterns, molds, dies and/or custom designed jigs or fixtures. Tool and cutter grinding, insert selection, electro discharge machining theory and the refinement of job plans are studied. Prerequisite: METL 155, METL 270

Proposed Catalog Description (Include all prerequisites:)

A lab course utilizing previous course work and technical skills. Students will design, draw, plan, prepare and set-up CNC and/or manual machines to produce a custom designed jig, fixture or punch and die to facilitate the production of a product. A job plan will be prepared for the utilization of the tool. Students will also utilize various precision grinding machines to resharpen HSS drill bits, lathe and milling cutters. Carbide insert selection and criteria will be investigated. Prerequisites: METL 155, 270 or permission of instructor.

Course Outcome Objectives:

General Educ: Lecture: Lecture/lab:

Contract hrs. lecture:

Contact hrs. lab:

- 1. Student will develop skill in the identification, selection, installation and application of tungsten carbide inserts used on CNC machine tools. Tool data will be included in a job plan, inserted in the CNC machine tool register and utilized in the production of parts.
- 2. Utilizing precision grinding machines and related accessories, students will apply technical theory and knowledge necessary to re-sharpen various high speed steel milling machine cutters.
- 3. Students will study information concerning electric Discharge Machining (EDM) including: advantages, disadvantages, types, power supplies, dielectric fluid, flushing, electrode preparation and metal removal rate.
- 4. Students will machine a custom designed jig, fixture, tool, or pattern involving the above theory and skills.

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

Mfgt 371 drop course rev form

NEW DROPPED _X	MAJOR REVISION FOR INFORMATION ONLY	
College College of Technical S	ciences_ Program Area <u>Industrial Technology</u> Date 3-30-03	
SubmitterSignature	Chair/Dean Date <u>3-31-03</u> Signature (indicates "college" level approval)	
Please provide a brief explanation & rationale for the proposed revision(s): DROP MFGT 470; unoue course from catalogue		
Please provide the following in	formation:	
Department: Program Area: Date:	College of Technical Sciences: Industrial & Engineering Technology Engineering Technology: Manufacturing Technology 2-22-99	
Course Prefix & No.: Course Title: Credits:	MFGT 470 Tool Design 3	
Required by: Selective in Elective in: General Education: Lecture:	Engineering Technology: Manufacturing Technology B.S.	
Lecture/Lab: Contact hours lecture:	X 0	
Contact hours lab:	6	

Current Catalog Description (include all prerequisites):

The design and manufacturing of a permanent plastic injection mold. The theory and practices are applicable to polymers as well as metals. Topics covered will include: The injection molding press, plastics identification, volume and shrinkage computation. Mold design including parting line selection, ejector pin location and inserts. Students will investigate Electro Discharge Machining (EDM). Application of knowledge and skills from prerequsitie courses is to be expected. Students in this course will design, fabricate, and produce parts from their own mold. Prerequisites include: DRFT 131, METL 155, METL 270, or permission of instructor.

Course Outcome Objectives:

The successful student will be able to:

- -Analyze a product idea for alternate production methods/costs/quantity factors.
- -Propose a solution w/rationale for materials and methods, including both product and tooling materials.
- -Design tooling elements that will successfully produce the product to specifications.
- -Provide for the application of the tooling design to real production machines (the tools must be usable in the appropriate setting and on an actual "primary machine".
- -Specify all working allowances, tolerances, and clearances for construction.
- -Annotate the drawings with all necessary information that would allow them to be bid on for fabrication.

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

Mfgt 470 DROP course rev form

NEW DE	ROPPED _X_ MAJOR REVISION FOR INFORMATION ONLY	
College College	re of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03	
Submitter Signature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)	
Please provide a brief explanation & rationale for the proposed revision(s): DROP CET 213; whom come to me catalogue Please provide the following information:		
Department: Program Area: Date:	College of Technical Sciences: Industrial & Engineering Technology Engineering Technology: Civil Engineering Technology January 1998	
Course pref and no.: Course title: Credits:	CET 213 Carpentry 3	
Required by:	Applied Technology Education Degree	
Selective in: Elective in: General Educ:		
Lecture: Lecture/lab: Contract hrs. lecture: Contact hrs. lab:		
Current/proposed Catalog Description (Include all prerequisites:) This course is designed to provide the student with an introduction to carpentry. Topics covered include the use of special tools, measuring devices, wood types, framing, floor, wall and roof construction, and evaluation of alternative construction techniques.		

Course Outcome Objectives:

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

Cet 213 drop course rev form

NEW _	DROPPED <u>X</u> N	MAJOR REVISION FOI	R INFORMATION ONLY
College	College of Technical So	ciences Program Area Indu	astrial Technology Date 3-30-03
Submitte	er	Chair/Dean	Date 3-31-03
Signature			cates "college" level approval)
DROP IT	ief explanation & rationa 110 Production Techno following information:	le for the proposed revision(logy from catalog	s):
•		-1 G -'	
Department:	College of Technic		
Program Area:	Industrial Technolo	egy	
Date:	January 2001		

Required By:

Credits:

Date:

3 (sem)

IT 110 Production Technology

Industrial Technology Bachelor of Science with Minor Option

Industrial Technology Bachelor of Science with Education Option

Lecture:

Lecture/lab: X 2 Contact Hrs. Lecture Contact Hrs. Lab:

Course Pref. & Title:

Catalog Course Description (include prerequisites:

Manufacturing Technology is a course designed to give the student an overview of manufacturing processes. The main focus of the course will be on secondary processes and their role in an industrial environment. The lecture time will concentrate on industrial processing. Laboratory activities will simulate industrial processes to involve the student in the major categories of forming, separating, fabricating, conditioning, and finishing.

Course Objectives:

- 1. Explain and provide examples of the manufacturing processes listed int eh course outline.
- 2. Identify and describe the manufacturing process by which different metal, wood, and plastic objects are
- 3. Demonstrate improved technical writing skills by completion of specified laboratory reportas and term
- 4. Demonstrate basic problem solving skills relating to manufacturing and production.
- 5. Perform precision measurement on laboratory work using industrial metrology equipment.
- 6. Perform basic planning functions for various operations
- 7. Calculate appropriate machining process variables
- 8. Perform basic operations safely in a laboratory setting.
- 9. Demonstrate the ability to use and care-for hand tools, equipment, and metrology apparatus.

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):

IT 110 drop course rev form

NEW DRO	OPPED X MAJOR REVISION FOR INFORMATION ONLY
College College	of Technical Sciences Program Area Industrial Technology Date 3-30-03
Submitter Signature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
Please provide a brief en Drop IT 120 Please provide the follo	8
Department: Program Area: Date: Course Pref. & Title: Credits: Required By:	College of Technical Sciences Industrial Technology January 2001 IT 120 Communications Technology 3 (sem) Industrial Technology Bachelor of Science with Minor Option Industrial Technology Bachelor of Science with Education Option

Catalog Course Description (include prerequisites:

X

2

This course will familiarize students with the educational requirements, talents, and responsibilities for careers related technology. An overview of program planning, employment trends, technical developments, license requirements and future trends in the various programs is provided. Special emphasis is given to the communication of technical information. Students will demonstrate subject competencies through both individual and group activities. Topics covered also include ethical and environmental issues related to technology.

Course Objectives:

Contact Hrs. Lecture

Contact Hrs. Lab: 2

Lecture: Lecture/lab:

During this course you will:

- 1. Become familiar with the role of the career opportunities in the industrial and engineering technology fields and the requirements for professional licensure.
- 2. Understand the principles involved in professionalism and professional ethics.
- 3. Develop academic success strategies.
- 4. Develop methods of solving technical problems.
- 5. Develop techniques for presenting technical information.
- 6. Demonstrate skill in using the fundamental units used in English and metric measurement systems.
- 7. Solve problems involving estimating, computer solutions, and statistics.
- 8. Explain the principles of total quality management.
- 9. Use the Internet and college resources to research assigned topics.
- 10. Give oral and written reports and technical presentations.
- 11. Become familiar with recent developments in technology.

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):

IT 120 drop course rev form

N	EW DROPPED <u>X</u>	_ MAJOR REVISION	FOR INFORMATION ONLY
C	ollege College of Technica	l Sciences Program Area	Industrial Technology Date 3-30-03
Subr	nitter	Chair/Dean	Date 3-31-03
	Signature	Signature	(indicates "college" level approval)
Drop IT 2	f explanation & rationale for the following information:	or the proposed revision(s)	;
Department:	College of Technic	cal Sciences	

Date:

Program Area:

Industrial Technology

January 2001

Course Pref. & Title:

IT 210 Energy/Power Technology

Credits:

3 (sem)

Required By:

Industrial Technology Bachelor of Science with Minor Option

Industrial Technology Bachelor of Science with Education Option

Lecture:

Lecture/lab: Contact Hrs. Lecture X 2

Contact Hrs. Lab: 2

Catalog Course Description (include prerequisites:

Energy/power technology will examine energy sources, power generation, power transmissions and control systems, resistance, power measurement, and devices that provide mechanical force. This course will concentrate on applications of electrical, electronic, mechanical, and power systems as they apply to the manufacturing, communications, and construction industries.

Course Objectives:

Upon completing of this course the student will be able to

- Identify current sources of energy and evaluate their future role related to power production considering supply, transportation, efficiency, and environmental impact.
- Describe the function of energy conversion devices including generators, turbines, solar panels, nuclear reactors, electric motors, and heat engines.
- Perform accurate precision measurements, calculate mechanical advantage, and determine force and distance relationships for mechanical systems, including gears, pulleys, inclined planes, levers, and chain drives.
- Apply technical principles to perform measurements and complete calculations on basic hydraulics, pneumatic systems, electrical, and electronic systems. Calculations will require conversion from English to metric system, the use of scientific notation, fractions, decimals, graphing, percentages, volume calculations, and area calculations
- Describe the function and applications of power, electrical, and electronic components including motor controls, distribution panels, resistors, switches, relays, circuit protection devices, capacitors, inductors, batteries, diodes, power supplies, contact and non-contact sensors, programmable controls, computers, and conductors.
- Read basic electrical and electronic circuit drawings.
- Given the technical specifications, the student will select basic electrical, mechanical, and electronic components from manufacturer's literature.
- Given a typical machine used in manufacturing, printing, or construction, the student will identify the prime mover, describe how the machine transfers power, and calculate the speed and force relationships as power is transferred through the electrical, mechanical, and/or power system. In addition, the student will identify how the machine senses position and control motion.
- Demonstrate safe working practices by wearing approved eye protection, using tools and equipment properly, and safely completing assigned laboratory activities.

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):

IT 210 drop course rev form

NEW	DROPPED	_ MAJOR	REVISION	_X_ FOR	INFORMATIO	ON ONLY
College Co	llege of Technic	al Sciences	_ Program A	rea _Indus	rial Technolog	y_ Date 3-30-03
Submitter Signatur	e	Chai	r/Dean Signat	ure (indica	tes "college" le	Date 3-31-03 evel approval)
Please provide a brief e Change METL	explanation & raprefix to IT pre		he proposed	revision(s)	:	
Department: Program Area: Date:	College of Tec Industrial Tech March 2003		nces: Indust	rial Techno	ology	
Course pref and no.: Course title: Credits: Required by:	METL 140 I Intro. To Weld 3 (sem)			0		
	Automotive To	echnology, A Technology echanics Te echnology, I echnology, A logy, AAS logy, B.S., I tenance & C	AAS (Selective, AAS (sel) chnology, B. B.S., Broadfi Automotive I (F) Broadfield, (Derations A	S., No Mir eld, No Mi Body, Asso F) AS.	nor (Selective) nor (Selective) ciate (selective	(F)
General Education: Lecture:	D					
Lecture/Lab:	X					
Contact Hrs. Lecture: Contact Hrs. Lab:						
cylinders, pow Introduction to	y course covering er sources, elect	ng care and no rodes, chara welding mile	use of arc an cteristics of	operation,	welding of stee	ent, regulators, torches, ls and special applications ls and types of joints are
To gain an und To identify dif New and/or Additional New and/or Additional	Library Resour	te safe use and select the quired:	nd care of we appropriate p	elding equi processes a	pment. nd procedures t	to weld them.
Special Facility Needs	Required: (labo	ratory space	, specialized	labs, room	s to facilitate la	arge groups, computer

weld shop - oxyfuel equipment- arc welding equipment - metal cutting and grinding machines METL 140 to IT 140 course rev form

labs):

NEW DI	ROPPED MAJOR REVISION _X_ FOR INFORMATION ONLY
College Ca	ollege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter	Chair/Dean Date 3-31-03
Signatur	Signature (indicates "college" level approval)
-	explanation & rationale for the proposed revision(s): prefix to IT prefix course description wording change
Please provide the foll Department: Program Area: Date:	owing information: College of Technical Sciences: Industrial Technology Industrial Technology March 2003
Course pref and no.:	METL 150 new prefix IT 150
Course title:	Shielded Metal Arc Welding
Credits:	3 (sem)
Required by:	Welding Certificate Railroad Maintenance & Operations
General Education: Lecture:	D
Lecture/Lab:	X
Contract hrs. lecture:	1
Contact hrs. lab:	4
A continuation	ption (include prerequisites): a of METL 140, additional training in welding horizontal, vertical, and overhead positions of apphasis is placed on alloys and special applications. Prerequisite: METL 140 or consent of
This course is overhead posit	ription (include prerequisites): a continuation of IT 140 and provides additional training in welding horizontal, vertical, and ions of mild steel. Procedures for welding alloyed steels are also covered. Prerequisite: IT of instructor. Course fee \$30.00
Course Objectives:	
<u>-</u>	n welding all positions of welding techniques and procedures
_	welding symbols
Understand ba	
New and/or Additional	Equipment Required:
	Library Resources Required:
Special Facility Needs	Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer

labs):

Metl 150 to it 150 course rev form

NEW	DROPPED MAJOR REVISION FOR INFORMATION ONLY
College Co	llege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
Signature	Signature (indicates "college" level approval)
-	explanation & rationale for the proposed revision(s): prefix to IT prefix
Please provide the follo	owing information:
Department:	College of Technical Sciences: Industrial & Engineering Technology
Program Area:	Industrial Technology
Date:	February 2001
Course pref and no.:	METL 154 new prefix IT 154
Course title:	Gas Arc Welding Processing
Credits:	3 (sem)
Required by:	Automotive Technology Associate, Automotive Body (S)
	Automotive Body Certificate
	Railroad Maintenance & Operations A.S.
	Welding Certificate
General Education:	D
Lecture:	
Lecture/Lab:	X
Contact Hrs. Lecture:	1 hr/wk
Contact Hrs. Lab:	
	otion (include prerequisites):

Setup and operation of equipment and control of welding variables, types of power sources, and characteristics of operation, shielding gases, filler materials, quality assurance, and weld defects in gas metal arc welding, gas tungsten arc welding and flux cored arc welding. Prerequisite: METL 140 or consent of instructor.

Proposed Course Description (include prerequisites):

This introductory course covers the setup and operations of equipment, control of welding variables, types of power sources, characteristics of operation, shielding gases, filler materials, quality assurance, and weld defects in gas metal arc welding, gas tungsten arc welding and flux cored arc welding. Prerequisite: IT 140 or consent of instructor. Course fee \$30.00

Course Objectives:

The purpose of this course is to train the student in the operation of Gas Metal Arc, Flux Cored Arc, and Gas Tungsten Arc Welding processes. The student will also learn basic theory of each process.

To pass this course the student shall observe safety practices, pass written exams and satisfactorily weld assigned coupons.

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):

Metl 154 to it 154 course rev form

NEW	DROPPED	MAJOR REVISIONX	FOR INFORMATION ONLY
College Co	llege of Technic	cal Sciences_ Program Area _Inc	dustrial Technology_ Date 3-30-03
Submitter		Chair/Dean	Date 3-31-03
Signatur		Signature (inc	dicates "college" level approval)
-	-	ationale for the proposed revision course description	
Please provide the follo	owing information	on:	
Department:	College of Tec	chnical Science: Industrial Tech	nology
Program Area:	Industrial Tech	hnology	
Date:	March 2003		
Course pref and no.:	METL 155 n	new prefix IT 155	
Course title:	Machining Pro	ocesses	
Credits:	3 (sem)		
Required by:	•	achining Certificates	
		ntenance & Operations A.S.	
	•	echnology: Design Drafting Technology	
		echnology: Design Drafting, Asology, Broadfield, no minor requi	
Lecture:	Dieser reemie	106j, Dioudiloid, ilo illinoi roqui	
Lecture/lab:	X		
Contact Hrs. Lecture:			
Contact Hrs. Lab:	4 hrs/wk		
Catalog Course Descrip	ption (include pr	rerequisites):	
		•	become familiar with basic theory and
			ne tools. Instruction includes the selection o
<u>-</u>	ds and the identi	ification and conditioning of asse	ociated cutting tools. Course fee \$15.00
Course Objectives: 1. Acquir	e skills in the sa	afe use of machine tools.	
		rate an understanding of various	machining operations.
		ish the difference between types	
		lusions pertaining to precision m	
		ods of work holding devises.	
		lusions pertaining to cutting tool	ls.
New and/or Additional		_	
New and/or Additional	=		4. C. :1:4.4. 1
-	kequired: (labor	ratory space, specialized labs, ro	ooms to facilitate large groups, computer
labs): METL 155 to IT 155 c	ourse rev form		
TATE TO SOLITION OF	Carbo for forth		

NEW D	ROPPED MAJOF	REVISION _X FOR INFORMATIO	N ONLY
College College o	f Technical Sciences	Program Area Industrial Technology	Date 3-30-03
Submitter	Cha	ir/Dean Signature (indicates "college" level :	_ Date 3-31-03
. Signature		Signature (indicates "college" level :	approval)
Please provide a brief of Change MET. Please provide the follows:	L prefix to IT	for the proposed revision(s):	
Department: Program Area: Date:	•	science: Industrial Technology	
Course pref and no.: Course title: Credits:	METL 185 new pres Metal Fabrication 3 (sem)	fix IT 185	
Required by:	Welding Certificate Railroad AAS		
Lecture/lab:	X		
Contact Hrs. Lecture:			
Contact Hrs. Lab:	4 hrs/wk		

Catalog Course Description (include prerequisites):

A study of equipment, metals, and procedures used to design, fabricate, and finish welded projects. Students combine skills of drafting, welding, and problem solving in developing functional projects. Prerequisite: IT 140 or consent of instructor.

Course Objectives:

Concepts and skills which the student will be expected to understand or perform are:

- 1. Proper design for strength, utility, and cost control in metal fabrication.
- 2. Layout practice in metals.
- 3. Correct welding procedure to control distortion and provide adequate fabrication skills.
- 4. Blueprint reading, calculating bills of material, and cost of materials.
- 5. Selection of best welding process for a given job.
- 6. Mass production
- 7. Computation of structural loads and trailer axle placement.

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):

Metl 185 to it 185

NEW	_ DROPPED M	IAJOR REVISI	ON _X_ FOR INFORI	MATION ONLY
College	College of Technical So	ciences_ Progra	m Area <u>Industrial Techr</u>	nology_ Date 3-30-03
Submitter Signatu	ıre	Chair/Dean S	lignature (indicates "colle	Date 3-31-03 ge" level approval)
Please provide a brief e Change METI Change numb	L prefix to IT prefix	for the proposed		
Please provide the follo	wing information:			
Department: Program Area: Date:	College of Technical Industrial Technolog March 2003		strial Technology	
Course pref and no.: Course title: Credits:	METL 260 new pro Repair and Maintena 3 (sem)			
Required by:	Agriculture Mechani Diesel Technology, I Welding Certificate Railroad Maintenance	BS, No Minor R	equired	
General Education: Lecture:	D	r		
Lecture/Lab:	X			
Contact Hrs. Lecture: Contact Hrs. Lab:	1 hr/wk 4 hrs/wk			
gas metal arc welding (repair and maintenance GMAW), and gas tung	of commonly u sten arc (GTAW		fuel, shielded metal arc (SMAW) idents work on practice exercises
using oxygen fuel, shiel	neory of practical metal lded metal arc (SMAW work will include both	lurgy and practi), gas metal arc	welding (GMAW), and g	tenance of commonly used metals as tungsten arc (GTAW) welding IT 140 and IT 154 or consent of
The student wi	ll be expected to under	_		
	Identification		ocess selection	
Joint d	lesign ode selection	Metal prep	aration ost-heat treatments	
	on repair		s metal repair	
	tion control	_ : _ 12		

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): metl 260 to it 360 course rev form

	NEW	DROPPED	_ MAJOR REVISION _	_X FO	R INFORMATION ON	1LY
	College Col	llege of Technic	al Sciences_ Program Ar	ea _Indus	trial Technology_ Date	3-30-03
	Submitter		Chair/Dean		Г	Date 3-31-03
	Signature				ites "college" level appr	
	Change METI Change course Please provide the follo Department:	L prefix to IT pre number to 355 owing information College of Tecl	on: hnical Sciences: Industria	n wording	g change	
	Program Area: Date:	Industrial Tech March 2003	nology			
	Course pref and no.: Course title: Credits:		ew prefix and number ication Procedures I	prefer	IT 355	
	Required by:	Welding Certif	icate			
	General Education: Lecture:	D				
	Lecture/Lab:	X				
	Contact Hrs. Lecture: Contact Hrs. Lab:					
		development of	clude prerequisites): manual skills necessary METL 150 or consent of i	-	_	er a structural
••	necessary to pe	cludes identifica	tion of appropriate proce eptable under a structura			
	 Identifi Selection and identification 	on and production of the	nitations of all essential von of appropriate joint de extent of student perfor	signs, cou mance qu	pon preparation, inspectalifications.	ction parameters,
			e to relate the appropriate stand the parameters of te			S.
			stand and perform under	_	•	
			sfully complete selected	weld perf	ormance certifications.	
	New and/or Additional New and/or Additional					
		•	ratory space, specialized	labs, roon	ns to facilitate large gro	ups, computer
	•					

Metl 285 to it 355

	COPPED MAJOR REVISION _A_ FOR INFORMATION ONLY
•	llege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
Signatur	Signature (indicates confege level approvar)
-	explanation & rationale for the proposed revision(s): L prefix to IT prefix course description wording change
Please provide the follo	owing information:
Department:	College of Technical Sciences: Industrial Technology
Program Area:	Industrial Technology
Date:	March 2003
Course pref and no.:	METL 356 new prefix IT 356
Course title:	Welding Certification Procedures II
Credits:	3 (sem)
Required by:	
Lecture:	v
Lecture/Lab: Contact Hrs. Lecture:	X
Contact Hrs. Lecture.	arr 6 hrs/wk
Condition Ins. Edu.	all o mo wa
	e Description (include prerequisites): blications to be taken following IT 355. Prerequisite: IT 355.
various perform	f this course is to provide additional techniques and skills necessary to successfully undertake nance certifications. Students will select codes, identify essential variables, and develop dure for welder performance certifications appropriate to their career goals.
Objectives:	
1. Selecti	on and production of appropriate joint designs
	n preparation of various certification procedures
	ication of inspection parameters
4. Advan	cement in the extent of student performance qualification
New and/or Additional	Equipment Required:
New and/or Additional	Library Resources Required:
Special Facility Needs labs): Metl 356 to it 356	Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer

	NEW	DROPPED MAJOR REVISION _X_ FOR INFORMATION ONLY
	College Co	llege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
	Submitter Signatur	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)
	•	explanation & rationale for the proposed revision(s): L prefix to IT prefix course description wording change
J	Please provide the follo Department: Program Area: Date:	owing information: College of Technical Sciences: Industrial Technology Industrial Technology March 2003
٠	Course pref and no.: Course title: Credits:	METL 357 new prefix IT 357 Welding Certification Procedures III 3 (sem)
)	Required by: General Education: Lecture:	D
٠,	Lecture/Lab: Contact Hrs. Lecture: Contact Hrs. Lab:	X arr 6 hrs/wk
		otion (include prerequisites): elications to be taken following IT 356. Prerequisite: IT 356.
		a continuation of IT 356. The purpose of this course is to provide additional opportunities for cessfully select and perform various performance certifications. Course fee \$20.00
	2. Coupo3. Identif	on and production of appropriate joint designs in preparation of various certification procedures ication of inspection parameters cement in the extent of student performance qualification
		Library Resources Required: Required: (laboratory space, specialized labs, rooms to facilitate large groups, computer

NEW DROPPED	MAJOR REVISION _X_ FOR INFORMATION ONLY	
College College of	Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03	
Submitter Signature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)	
Please provide a brief explanation & rationale for the proposed revision(s): Change MFGT prefix to IT prefix		
Please provide the following in	formation:	
Department:	College of Technical Sciences: Industrial Technology	
Program Area:	Industrial Technology	
Date:	March 2003	
Course pref and no.:	MFGT 200 new prefix IT 200	
Course title:	Manufacturing Processes and Materials	
Credits:	3 (sem)	
Lecture:	X	
Lecture/Lab:		
Contact Hrs. lecture:	3 hrs/wk	
Contract Hrs. lab:		
Required in which programs:	Design Drafting Technology BS, AAS Industrial Technology ED BS Industrial Technology BS	

Catalog Course Description (include prerequisites):

An introduction to the fundamentals of manufacturing. Capabilities, typical applications, advantages, and limitations of material and process selection for manufacturing. Course fee \$10.00

Course Objectives:

- 1. Be able to define or describe in writing several of the processes used in manufacturing, descriptions of materials, associated affects of manufacturing on the consumer and the product.
- 2. Be able to use association, joining descriptions of materials and terms related to the use of materials with the materials being described.
- 3. Be able to use association, joining descriptions of manufacturing processes and terms related to the processes to the manufacturing process and terms being described.
- 4. From the description of a consumer product be able to assign and describe in writing a manufacturing process and related environmental, engineering, and consumer concerns to the process.
- 5. From a given group of consumer products, be able to list the materials used, and identify some basic qualities about the materials.
- 6. Perform tasks and generate data on manufacturing materials that localize (helps to define) engineering information about the materials.

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):

Mfgt 200 to it 200 course rev form

	DROPPED MAJOR REVISIONX_ FOR INFORMATION ONLY llege of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03
Submitter	Chair/Dean Date 3-31-03
Signatur	Signature (indicates "college" level approval)
Change MFG	explanation & rationale for the proposed revision(s): T prefix to IT prefix course description wording change T 341 from catalog owing information:
Department:	College of Technical Sciences: Industrial Technology
Program Area:	Industrial Technology
D ate:	March 2003
Course pref and no.:	MFGT 341 new prefix IT 341
Course title:	CAD/CAM Applications
Credits:	3 (sem)

Lecture:

Lecture/lab: X Contact hrs. lecture: 2

Contact hrs. lab: 2 hrs/wk

Required in which programs:

Industrial Technology BS Industrial Technology Ed BS

Design Drafting Technology B.S., Minor (sel)

Catalog Course Description (include prerequisites):

A course in the principles and application of CAD/CAM and CNC technology. Students will solve problems associated with coordinate geometry, data base exchange, G and M code programming. Prerequisites: DRFT 156 and IT 155. Course fee \$10.00

Course Objectives:

Through the duration of this course each student will:

- understand the significance of CAD/CAM generated data bases. 1.
- demonstrate the techniques necessary to produce a multi-view drawing using AutoSKETCH. 2.
- demonstrate an understanding of CAM software by creating a drawing, tool paths,. NCI files, and 3. .NC files.
- understand the significance of sending a .DXF file from a CAD package to a CAM package. 4.
- down load a completed CNC file to a CNC milling machine and successfully create the part. 5.

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):

Mfgt 341 to it 341 course rev form

NEW DR	OPPED MAJOR REV	ISION _X_	FOR INFORMATION	ON ONLY
College Co	llege of Technical Sciences_	Program Area	_Industrial Technol	ogy_ Date <u>3-30-03</u>
Submitter	Chair	/Dean		Date 3-31-03
Signatur	e	Signature	(indicates "college"	level approval)
Change MFG	explanation & rationale for the T prefix to IT prefix course T 342 from catalog to be suffered to the course owing information:			
Department:	College of Technical Scien	ces: Industrial	Technology	
Program Area:	Industrial Technology			
Date:	February 1998			
Course prefix and no.	: MFGT 342 new prefix I'	Γ 342		
Course title:	CAD/CAM II			
Credits:	3 (sem)			
Required By: Lecture:	Industrial Technology BS Industrial Technology ED S Design Drafting Technology B.S., minor (sel)			
Lecture/lab:	X			
Contact hrs. lecture:				
Contact hrs. lab:	2 hrs. wk			
A continuation path definition	iption (include prerequisites in the study of G and M cod. Students will use 3 dimensice revolutions, and coons sur	es from IT 341 onal models to	create sweep surface	es, ruled surfaces, projected
Course Objectives:				
New and/or Additiona	al Equipment Required:			
New and/or Additiona	al Library Resources Requi	red:		
Special Facility Needs labs):	Required: (laboratory space	e, specialized l	abs, rooms to facilita	te large groups, computer
Mfgt 342 to it 342 cour	se rev form			

COURSE REVISION FORM

NEW DROPPED	MAJOR REVISION _X FOR INFORMATION ONLY							
College College of Technical Sciences_ Program Area _Industrial Technology_ Date 3-30-03								
SubmitterSignature	Chair/Dean Date 3-31-03 Signature (indicates "college" level approval)							
	planation & rationale for the proposed revision(s): prefix to IT prefix							
Please provide the follow	ving information:							
	College of Technical Sciences: Industrial Technology							
Program Area:								
Date:	March 2003							
Course prefix and no.:	MFGT 427 new prefix IT 427							
Course title:	Quality Assurance							
Credits:	3 (sem)							
Required By:	Industrial Technology BS Industrial Technology Ed BS Engineering Technology: Civil Engineering Technology, B.S.							
Lecture: Lecture/lab:	x							
Contact hrs. lecture: Contact hrs. lab:	3 hrs/wk							
	otion (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): Mfgt427 to it 427 course rev form



NEW	_ DROPPED	MAJOR REVISION	I <u>X</u>	FOR INFORMATION	ON ONLY
College College	of Technical Sciences	Program Area	<u>Diesel</u>	Technology AAS	Date <u>10-20-02</u>
Subm	nitter	Chair/Dean		Date <u>10</u>	<u>-25-02</u>
	signatures on original		:	signatures on original	

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

Add MAAS 106 as a choice for students in the Diesel AAS degree

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 YEAR Courses to be taken Either Semester	•	MA To Malding & Continue 2
METL	140 Intro. To Welding & Cutting	3	140 Intro. To Welding & Cutting 3
ENGL SPCH	111 Written Communication I 141 Fundamentals of Speech	3 3	
SECH	141 Fundamentals of Speech	3	
	Courses to be taken Fall Semester		
DIES	104 Introduction to Diesel Engines AND	3	
DIES	114 Introduction to Diesel Engines Lab OR	3	
DIES	115 Intro. to Diesel Fuel Systems	4	그는 그 일본 회사는 회사들은 하루 중에 가는 그 모든 그는 그를 다 되었다.
ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4	그는 그 전환, 지난 학교의 얼굴은 나타다는 그 그 그
DIES	204 Intro. To Hydraulics & Pneumatics	2	
DIES	214 Intro. To Hydraulics/ Pneum. lab	2	
	,		그는 그 시간 통해가 살게 되니 나와 하면 중에서는 이 사람이다.
(Courses to be taken Spring Semester		그는 그리 호시 보았다는 사람이 있는 없는
DIES	104 Introduction to Diesel Engines	3	그는 그 이 바다 하셨다면 사용하는 사람들은 이 때문
	AND		
DIES	114 Introduction to Diesel Engines Lab OR	3	
DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	265 Heating & Air Conditioning	4	
	SOPHOMORE YEAR		
	Courses to be taken Either Semester		
MAAS	106 Math for Applied Science	3	
MATH	110 Math for Liberal Arts	4	
	OR		$\epsilon_{i}=-1$
MATH	112 College Algebra	3	
CIS	110 intro to Computers	3 .	
	Gen Ed Dist (Area A, B, or C)	3	
	0		
ATDI	Courses to be taken Fall Semester	4	
ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. II	4	
DIES	216 Heavy Duty Power Trains	4	
DIES	262 Diesel Engine Diagnosis & Repair 272 Diesel Engine Diagnosis & Repair la	2	
DIES	2/2 Diesei Engline Diagnosis & Repair la	4	
	Courses to be taken Spring Semester		
ATDI	257 Automatics	4	
DIES	219 Heavy Duty Chassis	4	
DIES	273 Diesel Shop Practices	4	
	·		66 or 67

66 or 67

PR	OGRAM/DEGREE REVISION	ON FORM	
NEW DROPPED _	MAJOR REVISION	X FOR INFORMATION	ON ONLY
College College of Technical Sc	iences Program Area Dies	sel Technology BS	Date xxxxxxxx
Submitter	Chair/Dean	Date	
signat		signature	
Please provide a bi	rief explanation & rational for	r the proposed revision	on(s)
Please provide in the space belo	-		~

program noted. Attach appropriate Course Revision Forms. Please indicate changes by shading the appropriate cells.

	FRESHMAN YEAR					
	Courses to be taken Either Semester	2		\$5.50M	440 letre Te Welding 8 Cutting	•
METL ENGL	140 Intro. To Welding & Cutting 111 Written Communication I	3 3	IT		140 Intro. To Welding & Cutting	3
SPCH		ა ვ				
SPUR	141 Fundamentals of Speech	3				
	Courses to be taken Fall Semester					
DIES	104 Introduction to Diesel Engines	3				
	AND					
DIES	114 Introduction to Diesel Engines Lab OR	3				
DIES	115 Intro. to Diesel Fuel Systems	4				
ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4				
DIES	204 Intro. To Hydraulics & Pneumatics	2				
DIES	214 Intro. To Hydraulics/ Pneum. lab	2				
•	Courses to be taken Spring Semester					
DIES	104 Introduction to Diesel Engines AND	3				
DIES	114 Introduction to Diesel Engines Lab OR	3				
DIES	115 Intro. to Diesel Fuel Systems	4				
ATDI	265 Heating & Air Conditioning	4				
	SOPHOMORE YEAR					
	Courses to be taken Either Semester					
MATH	110 Math for Liberal Arts OR	4				
MATH	112 College Algebra	3				
CIS	110 intro to Computers	3				
	Gen Ed Dist (Area A, B, or C)	3				
	Courses to be taken Fall Semester					
ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. II	4				
DIES	216 Heavy Duty Power Trains	4				
DIES	262 Diesel Engine Diagnosis & Repair	2				
DIES	272 Diesel Engine Diagnosis & Repair la	4	•			
(Courses to be taken Spring Semester					
ATDI	257 Automatics	4				
DIES	219 Heavy Duty Chassis	4				
DIES	273 Diesel Shop Practices	4				

NEW DR	OPPED I	MAJOR REVISION	I <u>X</u>	FOR INFORMATION	ONLY
College College of Tec	<u>chnical Sciences</u>	Program Area	<u>Diesel</u>	Technology BS	Date xxxxxxxx
Submitter _		Chair/Dean		Date	
	signature			signature	
Please pro	ovide a brief exp	olanation & ration	al for th	e proposed revision((s)

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 YEAR

Courses to be taken Either Semester				
METL 140 Intro. To Welding & Cutting	3	IT	140 Intro. To Welding & Cutting	3
ENGL 111 Written Communication I	3			
SPCH 141 Fundamentals of Speech	3			
Occurred to be follow Foll Occurred				
Courses to be taken Fall Semester	2			
DIES 104 Introduction to Diesel Engines AND	3			
DIES 114 Introduction to Diesel Engines Lab	3			
OR	3			
DIES 115 Intro. to Diesel Fuel Systems	4			
ATDI 134 Auto/Diesel Electrical/Elctrnc Sys. I	4			
DIES 204 Intro. To Hydraulics & Pneumatics	2			
DIES 214 Intro. To Hydraulics/ Pneum. lab	2			
,				
Courses to be taken Spring Semester				
DIES 104 Introduction to Diesel Engines	3			
AND				
DIES 114 Introduction to Diesel Engines Lab	3			
OR				
DIES 115 Intro. to Diesel Fuel Systems	4			
ATDI 265 Heating & Air Conditioning	4			
CORUCHORE VEAR				
SOPHOMORE YEAR				
Courses to be taken Either Semester				
MATH 110 Math for Liberal Arts	4			
OR	•			
MATH 112 College Algebra	3			
CIS 110 intro to Computers Gen Ed Dist (Area A, B, or C)	3 3			
Gen Ed Dist (Alea A, B, Or C)				
Courses to be taken Fall Semester				
ATDI 264 Auto/Diesel Electrical/Elctrnc Sys. II	4			
DIES 216 Heavy Duty Power Trains	4			
DIES 262 Diesel Engine Diagnosis & Repair	2			
DIES 272 Diesel Engine Diagnosis & Repair la	4			
Courses to be taken Spring Semester				
ATDI 257 Automatics	4			
DIES 219 Heavy Duty Chassis	4			
DIES 273 Diesel Shop Practices	4			

JUNIOR YEAR

	COMOR ILAK					
	Courses to be taken Either Semester					
METL	155 Machining Processes	3	ίΤ		155 Machining Processes	3
	Gen Ed Dist (Area B)	3			, 10000000	3
	Gen Ed Dist (Area B)	3				
ENGL	366 Tech. Writing/Editing (Area A)	3				
ENGL	112 Written Communication II	3				
	· · · · · · · · · · · · · · · · · · ·	J				
	Courses to be taken Fall Semester					
ATDI	384 Auto/Diesel Electronics Apps	4				
METL	260 Repair & Maintenance Welding	3	IT	46.2	360 Repair & Maintenance Welding	3
				7 6.4	The response maintenance violating	3
	Courses to be taken Spring Semester					
DIES	314 Hydraulics & Pneumatics II	4				
	SENIOR YEAR					
	Courses to be taken Either Semester					
TSCI	304 Fuels/Lubricants (Area C)	3				
	Gen Ed Dist (Area A)	3				
	Courses to be taken Fall Semester					
ATDI	400 Shop Procedures II	2				
DIES	420 Diesel Shop Mgmt.	2				
DIES	440 Advanced Fuel Systems	4				
	Courses to be taken Out to O					
DIES	Courses to be taken Spring Semester	^				
DIES	434 Current Model Year Tech (Capstone	3				
טונט	450 Diagnosis of Power Shifts & HD Auto Electives	4				
	OR	6				
DIES	479 Cooperative Education	6				
	poranto madounon	9				

prog rev diesel bs 02

			PF	ROGRAM	/DEGRE	E RE	EVISION	FORM		
		NEW	_ DROPPED _	M <i>/</i>	AJOR RE	/ISIC	NX_	FOR INFORM	MATION (ONLY
C	ollege	College of	of Technical So	<u>ciences</u>	Prograi	n Ar	ea <u>Auto Bo</u>	ody AAS		Date 10-20-02
	S	Submitter		Chair	/Dean			Date ²	10-25-02	
	_	•	signatures on orig				sig	natures on original		
		Pleas	se provide a b	rief expla	nation &	ratio	nal for the	proposed re	evision(s)
add MA	AS 106	as a choice	for students in th	e Auto Bod	y AAS degre	e				
Ple	ase p	rovide in t	the space belo	ow a "bef	ore & afte	er" pi	icture of t	he program w	vith the c	hanges in the
pro	ogram	noted. A	ttach approp	riate Cou				ease indicate o	changes I	by shading the
					appropri	ate ce	ells.			
	í	FRESHMAN	YEAR							
	_									
			n Either Semest							
CIS ENGL		ntroduction to Vritten Comm	•	3 3						
SPCH		Fundamentals		3						
SECH	141 [unuamentais	or Speech	3						
	Cours	es to be tak	en Fall Semeste	r						
BODY	140 F	Panel Adjustm	ent & Glass	2						
BODY	141 l	ntro. Of Metal	Refinishing	3						
BODY	142 N	Metal Repair L	_ab	3						
METL			ing Processing	3	IT		154 Gas Ard	Welding Process	sing	3
METL	140 I	ntro. To Weld	ing & Cutting	3	IT		140 Intro. To	Welding & Cutting	ng	3
(Course	s to be take	n Spring Semest	ter						
AUTO			& Suspension	4						
BODY	143 F	Refinishing		3	Sales 2		444			
BODY		Refinishing La	b	3				SAS.		
ART		rwo-Dimensio		3						
			•				100			
	•	SOPHOMO	RE YEAR							
	دمست	e to bo take	n Either Semest	or	\$1 <u>25</u>		E PREMIE			
MAAS		viath for Appl		er 3						
100 0 10	.00 .	viatir for Appi	ilod Colonioc	J						
MATH	112 (College Algebi	ra	3						
		DR J		•			•			
MATH	110 N	Math for Libera	al Arts	4		in .				
	Cours	es to be tak	en Fall Semeste	r						
BODY	215 F	Prin. Of Unibo	dy Repair Fund.	3						
BODY			ir Technology	3						
ATDI	134 A	Auto/Diesel El	ectrical/Elect Sys I	4						
	Course	s to he take	n Spring Semest	er						
ATDI		Heating & Air		4						
BODY		Estimating	2011011101111119	4						
BODY		Shop Production	on	3						
BODY		Shop Production		3						

PROGRAM/DEGREE REVISION FORM NEW ____ DROPPED ____ MAJOR REVISION __X FOR INFORMATION ONLY

Date xxxxxxxx

College College of Technical Sciences Program Area Design Drafting Tech AAS

	Submitter	SubmitterChair/Dean		·	Datesignature		
	• • •	-	ation &	ratio	onal for the proposed revisio	n(s)	
	ase provide in the space below			_		_	
pro	ogram noted. Attach appropria		e Revis ppropri			es by shading the	
	FRESHMAN YEAR						
010	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 3	ıT	W. 19-30	155 Machining Processes	2	
METL	155 Machining Processes	3	IT		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					
MATH	125 Trigonometry (Area C)	2					
EET	110 Electronics Survey I	3					
	SOPHOMORE YEAR						
	Courses to be taken Fall Semester						
DRFT	256 3D CAD	3					
MFGT	200 Manufacturing Processes	3	IT.	7.7	200 Manufacturing Processes	3	
DRFT	201 Residential Drafting	3		ORGANICO CO			
Select o	one of the following tracks						
	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				,	
	ING TECHNOLOGY TRACK	•					
	Advisor Approved Elective	3					
PHYS	114 Found. of Phys. Sci.(Area C)	4					
	······································	•					
c	Courses to be taken Spring Semester						
DRFT	205 Machine Drafting	3		•			
DRFT	244 Topographic Drafting/GIS Apps.	3					
CIS	171 Database Level I	3					
	one of the following tracks						
	DESIGN DRAFTING TRACK						
	Advisor Approved Elective	3					
CET	181 Surveying	3					
DRAFTI	ING TECHNOLOGY TRACK						
	Advisor Approved Elective	3					
	Advisor Approved Elective	3					
	• •						

	NEW	_ DROPPED	MA	JOR REVIS	SION X	_ FOR INFORMA	TION ONLY
C	ollege College	of Technical Scie	nces	Program A	Area Desig	n Drafting Tech B	S Date xxxxxxxx
	Submi			air/Dean _		Date _	
		signatur				signature	
	Pleas	se provide a brie	et explai	nation & rat	tional for t	the proposed revi	ision(s)
Ple	ase provide in	the space below	a "befo	re & after"	picture of	f the program wit	h the changes in the
pro	ogram noted. A	Attach appropria	te Cour	se Revisior	Forms.	Please indicate ch	anges by shading the
				appropriate	cells.		
	FRESHMAN						
010	Courses to be tak		_				
CIS	110 Intro To Comp		3				
CET DRFT	173 Arch. Cnst. &		3				
MATH	131 Technical Gra 112 College Algeb	-	4 3				
METL	155 Machining Pro		3	IT	155 Mac	hining Processes	3
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ū	••	100 11100	mining i roccocco	Ŭ
(Courses to be take	n Spring Semester					
DRFT	132 Descriptive Ge	eometry	3				
DRFT	156 Intro. to CAD		3				
SPCH	141 Fund. of Spee		3				
ENGL	111 Written Comm		3				
MATH	125 Trigonometry		2				
EET	110 Electronics Su	ırvey I	3				
	SOPHOMO	DE VEAD					
	Courses to be tak						
DRFT	256 3D CAD	cirr air ocinesiei	3				
MFGT	200 Manufacturing	Processes	3	ΙΤ	200 Man	ufacturing Processes	3
DRFT	201 Residential Dr		3			3 · · · · · · · · · · · · · · · · · · ·	
Select of	one of the followin	g tracks					
	DESIGN DRAFTING						
CET	221 Engineering M	1echanics	3				
PHYS	231 Fund of Physic	cs (Area C)	3				
PHYS	234 Fund of Physic		1				
DRAFT	ING TECHNOLOGY	TRACK					
	Advisor Appro	ved Elective	3				
PHYS	114 Found, of Phy	s. Sci.(Area C)	4				
		. 0	•	-			
		n Spring Semester	•	2.50			
DRFT	205 Machine Draft	-	3				
DRFT CIS	244 Topographic [171 Database Lev		3 3				
	one of the following		3				
	DESIGN DRAFTING	•		-			
ADDA L	Advisor Appro		3				
CET	181 Surveying		3				
	ING TECHNOLOGY	TRACK	•				
	Advisor Appro		3				
	Advisor Appro	ved Elective	3				

JUNIOR YEAR

Courses	to	hο	takon	Fall	Semester
Courses	w	иe	taken	ган	Semester

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

PROG REV DESIGN DRAFTING BS with IT 3 31 03

		NEW DROPPED	MA				FOR INFO		N ONLY	<u>X</u>
C	olleç	ge College of Technical Scien	<u>nces</u>	Pro	gram Ar	ea <u>Ag</u>	Mech Tech	AAS	D	ate <u>3-31-03</u>
		Submitter (Jaya bah) signatures on original	<u>_</u> c	hair/D	ean		signatures o	Date_ n original		
		Please provide a brie	f expla	nation	& ratio	nal for	the propo	sed revis	ion(s)	
		CHANGE METL 260 TO I	-							O TO IT 360
Δ	986	CIATE DEGREE STUDEN		•						
-										
		provide in the space below			-					-
pr	ogra	m noted. Attach appropriat	e Cou				Please ind	nicate chai	nges by	snading the
				appro	priate ce	iis.				
		FRESHMAN YEAR								
	Cou	irses to be taken Fall Semester	14							
GMT	130	Intro. To Agricultural Tractors**	3							
		OR								
GMT		Tillage & Planting Implements*	3							
IS IES		Intro To Computers Intro. To Diesel Engines	3 3							
IES		Intro. To Diesel Engines Lab	3							
NGL		Written Communication I	3							
1ETL	140	Intro. To Welding & Cutting	3							
	C 0.115	ses to be taken Spring Semester								
GMT		Intro to Ag Machines and Equipment	2							
GMT		Forage Implements**	3							
(CIVIT	120	OR	J							
GMT	205	Grain Harvesting Equipment*	3							
TDI		Auto/Diesel Electrical/Electronic Sys.	4							
//AAS	106	Math for Applied Science	3							
MTAN	112	College Algebra	3							
	440	OR	4							
MATH		Math for Liberal Arts Intro. To Diesel Fuel Systems	4 4							
IIES .	113	initio. To blesel ruel systems	7							
		SOPHOMORE YEAR								
	Cou	urses to be taken Fall Semester								
GMT	210	Tillage & Planting Implements* OR	3							
GMT	130	Intro. To Agricultural Tractors**	3							
DIES		Heavy Duty Power Trains	4							
DIES		Diesel Engine Diagnosis & Repair	2							
DIES		Diesel Engine Diag. & Repair Lab	4		ıT	154 C	as Arc Weldir	na Brancosir	\ a	3
/IETL		Repair & Maintenance Welding ses to be taken Spring Semester	3		IT	154 G	as Arc Weldir	ig Processir	ıg	3
GMT		Grain Harvesting Equipment*	3							
AGMT	120	OR Forage Implements**	3							
ATDI		Heating & Air Conditioning	4							
DIES		Intro. To Hydraulics & Pneumatics	2							
DIES		Intro. To Hyd. & Pneumatics Lab	2							
PCH		Fundamentals of Speech OR	3							
SPCH	142	Interpersonal Communication	3							
		Gen Ed Dist (Area B)	3							
		** O#	67 o		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				67	7 or 68
		** Offered even numbered acade* Offered odd numbered academ								

			DEGREE REV			
				X FOR INF		
Co	llege College of Technical Sci	<u>ences</u>	Program Area	Ag Technology /	<u>AAS</u>	Date <u>xxxxxxxx</u>
	Submitter		air/Dean		_Date	. <u> </u>
	signatur			signature		
	Please provide a brie	ef expla	nation & ration	al for the propos	ed revision	(s)
			0 (1 1 1 1			
	se provide in the space below					
prog	gram noted. Attach appropria	te Cour	se Revision Fo appropriate cell		ate change	s by snading the
			appropriate cen	3.		
	FRESHMAN YEAR					
	Courses to be taken ANY Semester					
CIS	110 Intro To Computers	3				
ENGL.	111 Written Communication I	3				
SPCH	141 Fundamentals of Speech	3				
MATH	110 Math for Liberal Arts OR	4				
MATH	112 College Algebra	3				
1907 (7 7 7	Cre Gologe Figuria	ű				
	Courses to be taken Fall Semester					
AG	100 Leadership Development	2			,	
AG	101 Animal Science	3				1
AG	102 Plant Science	3				
AG	105 Ag. Marketing & Economics	3 3				
AG	150 Agricultural Computing	3				
c	ourses to be taken Spring Semeste	r				
AG	125 Farm Management	3				
	Selectives	6				
BIOL	151 Essential of Biology (Area C)	4				
CUEM	OR	2				
CHEM	111 General Chemistry (Area C)	3				
	SOPHOMORE YEAR					
	Courses to be taken Fall Semester					
AG	218 Crop Production	4				
AG	254 Forage & Range Mgmt.	. 4				
	Selectives	6				
C	ourses to be taken Spring Semeste	r				
AG	204 Soils	4				
AG	230 Agricultural Pest Mgmt.	4				
AG	244 Livestock Feeding	4				
ΔG	RIBUSINESS EMPHASIS SELECTIV	ES				

3

3

ACCT

ACCT

261 Principles of Accounting I (F)

262 Principles of Accounting II (S)

AG	245 Livestock Production (F)	4		
AG	279 Cooperative Education (F/S)	6		
BUS	100 Intro. To Business (F)	3		
BUS	245 Personal Finance (F)	3		
BUS	250 Business Statistics (F)	3		
BUS	271 Legal Environ. of Business (S)	3		
ECON	241 Microeconomic Principles (F)	3		
AGRI	TECHNOLOGY EMPHASIS SELECTIV	ES		
AG	279 Cooperative Education (F/S)	6		
AGMT	110 Intro. to Ag. Mach./Equip(S)	2		
AGMT	130 Intro. to Ag. Tractors (F)	3		
ATDI	134 Auto/Dies Elt/Electronic Sys. I (F/S)	4		
DIES	204 Intro. to Hydraulics & Pneum. (F)	2		
DIES	214 Intro. to Hydra/Pneum. Lab (F)	2		
DRFT	156 Introduction to CAD (F/S)	3	METL	
DRFT	244 Topo. Mapping & GIS Apps. (S)	3	MC	
METL	140 Intro. To Welding/Cutting (F/S)	3	140 Intro. To Welding/Cutting (F/S)	3

111 Ind. Safety/Waste Mgmt. (S)

2

TECH

100 Ind. Safety/Waste Mgmt. (S)

	NEW DROPPED _	MAJ	OR REVIS	SION <u>X</u> FOR INFORMATIO	N ONLY		
C	ollege College of Technical Sc	ences	Program	Area Civil Eng Tech Minor	ch Minor Date xxxxxxxx		
	Submitter	Cha	ir/Dean _	Datesignature			
	signati	ure		signature			
	Please provide a br	ief explana	ation & ra	tional for the proposed revisior	n(s)		
Ple	ease provide in the space belo	w a "befor	e & after'	' picture of the program with the	e changes in the		
	•			n Forms. Please indicate change	•		
		а	ppropriate	e cells.			
	GIS OPTION						
	Required Courses	L 2		400 letes to leductrial/Engineering Too	h 0		
IET CET	100 Intro to Industrial/Engineering Tec305 Engineering Economics	h 3 3	ΙΤ	100 Intro to Industrial/Engineering Tec	h 3		
DRFT	244 Topographic Mapping & GIS Appli						
CET	385 Highway Design & Cost.	c. 3 4					
CET	181 Surveying	3					
CIS	171 Database Level I	3					
CIS	410 Decision Support Systems	3					
	STRUCTURES OPTION						
	Required courses						
IET	100 Intro to Industrial/Engineering Ted	ch 3	IT	100 Intro to Industrial/Engineering Ted	ch 3		
CET	307 Structural Analysis	3			•		
CET	305 Engineering Economics	3					
CET	221 Engineering Mechanics	3					
CET	232 Strength of Materials	3					
CET	361 Design/Details of Steel Bldgs.	4					
CET	411 Rein. Concrete Design & Details	4					

	NEW DROPPED _	MAJ	OR REVIS	SION <u>X</u> FOR INFORMATIO	N ONLY		
C	ollege College of Technical Sc	ences	Program	Area Civil Eng Tech Minor	ch Minor Date xxxxxxxx		
	Submitter	Cha	ir/Dean _	Datesignature			
	signati	ure		signature			
	Please provide a br	ief explana	ation & ra	tional for the proposed revisior	n(s)		
Ple	ease provide in the space belo	w a "befor	e & after'	' picture of the program with the	e changes in the		
	•			n Forms. Please indicate change	•		
		а	ppropriate	e cells.			
	GIS OPTION						
	Required Courses	L 2		400 letes to leductrial/Engineering Too	h 0		
IET CET	100 Intro to Industrial/Engineering Tec305 Engineering Economics	h 3 3	ΙΤ	100 Intro to Industrial/Engineering Tec	h 3		
DRFT	244 Topographic Mapping & GIS Appli						
CET	385 Highway Design & Cost.	c. 3 4					
CET	181 Surveying	3					
CIS	171 Database Level I	3					
CIS	410 Decision Support Systems	3					
	STRUCTURES OPTION						
	Required courses						
IET	100 Intro to Industrial/Engineering Ted	ch 3	IT	100 Intro to Industrial/Engineering Ted	ch 3		
CET	307 Structural Analysis	3			•		
CET	305 Engineering Economics	3					
CET	221 Engineering Mechanics	3					
CET	232 Strength of Materials	3					
CET	361 Design/Details of Steel Bldgs.	4					
CET	411 Rein. Concrete Design & Details	4					

PROGRAM/DEGREE REVISION FORM NEW _____ DROPPED _____ MAJOR REVISION __X FOR INFORMATION ONLY

Co	olleg	je College of Technical Science	ences .	Program Ar	ea Civil Engineering Tech AAS	Date xxxxxxxx
		Submitter		air/Dean	Date	-
		signatur		action 8 ratio	signature	(=)
		Please provide a bri	er expiai	iation & ratio	onal for the proposed revision	(S)
Ple	ase	provide in the space below	v a "befo	re & after" p	icture of the program with the	changes in the
pro	gra	m noted. Attach appropria	te Cour	se Revision I	Forms. Please indicate change	s by shading the
				appropriate c	ells.	
	C	FRESHMAN YEAR				
CIS		rses to be taken Fall Semester Intro to Computers	2			
		Intro to Indtl/Engineering Tech.	3 3	IT 🔣	100 Intro to Indtl/Engineering Tech.	2
DRFT		Technical Graphics I	4		Too intro to indu/Engineering Tech.	3
MATH		College Algebra	3			
CET		Arch. Cnst. & Materials	3			
Coi	ırses	to be taken Spring Semester				
MATH		Trigonometry (Area C)	2			
EET		Electronics Survey I	3			
DRFT		Intro to CAD	3			
D , (, ,	.00	Gen Ed Dist. (Area A-B)	3			
CIS	171	Database Level I (Area C)	3			
TECH		Industrial Safety/Waste Mgmt.	2	IT	111 Industrial Safety/Waste Mgmt.	2
		SOPHOMORE YEAR				
		rses to be taken Fall Semester				
CET		Cnst. Mgmt/Bid Estimation	3			
CET		Engineering Mechanics	3			
PHYS		Fund. of Physics I (Area C)	3	METL		
PHYS		Fund. of Physics I LAB (Area C)	1	71010		
METL	215	Metallurgy/Mfgt. Materials	3	M	315 Metallurgy/Mfgt. Materials	3
ENGL	111	Written Communication I	3	\		
Cou	ırses	to be taken Spring Semester				
		Fundamentals of Speech	3			
CET		Surveying	3			
CET		Strength of Materials	3			
MATH		Intro to Calculus (Area C)	3			
CHEM		General Chemistry (Area C)	3			
DRFT		Topo Mapping & GIS Applic.	3	Programme and the second		
prog rev	civil e	eng tech bs form 02				

!	NEW	DROPPED	MAJOR REV	ISION _	<u>X</u>	FOR INFORMATION	ONLY
College	College of	Technical Sciences	Program	Area <u>C</u>	ompu	ter Eng Tech BS	Date 3 13 03
	Submitt	er	_Chair/Dean _			Date	
	si	gnature IS on original	_		signati	ure IS on original	
	DI			. 4			

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

Replace CPET 301 Discete Mathematics with CIS Elective

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 YEAR			FRESHMAN YEAR	
	Courses to be taken Fall Semester		Course	s to be taken Fall Semester	
IET ,	100 Intro to Ind/Engineering Tech	3	IT	100 Intro to Ind/Engineering Tech	3
EET	101 Intro to Electricity/Electronics	5	EET	101 Intro to Electricity/Electronics	5
ENGL	111 Written Communication I	3	ENGL	111 Written Communication I	3
MATH	112 College Algebra	3	MATH	112 College Algebra	3
CIS	111 Integrated Bus. Applications	3	CIS	111 Integrated Bus. Applications	3
(Courses to be taken Spring Semester			Courses to be taken Spring Semester	
	Soc Sci Elective (Area B)	3		Soc Sci Elective (Area B)	3
CIS	115 Intro. To Programming	3	CIS	115 Intro. To Programming	3
EET	103 Electronics Fundamentals I	5	EET	103 Electronics Fundamentals I	5
ENGL	112 Written Communication II	3	ENGL	112 Written Communication II	3
MATH	125 Trigonometry (Area C)	2	MATH	125 Trigonometry (Area C)	2
	SOPHOMORE YEAR			SOPHOMORE YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
CIS	155 Programming Level I	3	CIS	155 Programming Level I	3
EET	207 Digital Fundamentals	5	EET	207 Digital Fundamentals	5
SPCH	141 Fund. of speech	3	SPCH	141 Fund. of speech	3
	OR			OR	
SPCH	142 Interpersonal Communication	3	SPCH	142 Interpersonal Communication	3
CPET	260 Networking I	3	CPET	260 Networking I	3
PHYS	231 Fund. of Physics I (Area C)	3	PHYS	231 Fund. of Physics I (Area C)	3
PHYS	234 Fund. of Physics I lab (Area C)	1	PHYS	234 Fund. of Physics I lab (Area C)	1
	Courses to be taken Spring Semester			Courses to be taken Spring Semester	
EET	204 Electronic Fund. II	4	EET	204 Electronic Fund. II	4
CPET	201 Computer Hardware I	3	CPET	201 Computer Hardware I	3
CPET	301 Discrete Mathematics	3	CIS	(Call Carried	3
MATH	133 Intro. to Calculus	3	MATH	133 Intro. to Calculus	3
	Gen Ed Dist (Area B - ABET req.)	3		Gen Ed Dist (Area B - ABET req.)	3
	JUNIOR YEAR			JUNIOR YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
CIS	360 Business Telecomm. & Networking	3	CIS	360 Business Telecomm. & Networking	3
EET	305 Digital Systems	3 .	EET	305 Digital Systems	3
MATH	220 Calc. & Analytic Geo. I	5	MATH	220 Calc. & Analytic Geo. I	5
	Courses to be taken Spring Semester			Courses to be taken Spring Semester	
CIS	255 Programming Level II	3	CIS	255 Programming Level II	3
	Elective (300-400)	3		Elective (300-400)	3
	Elective (300-400)	3		Elective (300-400)	3
	Math/Sci. Elective	4		Math/Sci. Elective	4
	Gen Ed Dist. (Area A)	3		Gen Ed Dist. (Area A)	3

SENIOR YEAR		SENIOR YEAR				
Courses to be taken Fall Semester			Courses to be taken Fall Semester			
Elective (300-400)	3		Elective (300-400)	3		
300 Operating Systems Intro.	3	CIS	300 Operating Systems Intro.	3		
Elective (300-400)	3		Elective (300-400)	3		
450 Adv. Digital Systems	3	EET	450 Adv. Digital Systems	3		
Elective (300-400)	3	CIS	Elective (300-400)	3		
Courses to be taken Spring Semester			Courses to be taken Spring Semester			
401 Interfacing	3	EET	401 Interfacing	3		
430 Adv. Communication Systems	3	EET	430 Adv. Communication Systems	3		
Elective	3		Elective	3		
Gen Ed Dist. (Area A-Humanities)	3		Gen Ed Dist. (Area A-Humanities)	3		
Gen Ed Dist. (Area B-Soc Sci)	3		Gen Ed Dist. (Area B-Soc Sci)	3		
	124			124		
	Courses to be taken Fall Semester Elective (300-400) 300 Operating Systems Intro. Elective (300-400) 450 Adv. Digital Systems Elective (300-400) Courses to be taken Spring Semester 401 Interfacing 430 Adv. Communication Systems Elective Gen Ed Dist. (Area A-Humanities)	Courses to be taken Fall Semester Elective (300-400) 3 300 Operating Systems Intro. 3 Elective (300-400) 3 450 Adv. Digital Systems 3 Elective (300-400) 3 Courses to be taken Spring Semester 401 Interfacing 3 430 Adv. Communication Systems 3 Elective 3 Gen Ed Dist. (Area A-Humanities) 3 Gen Ed Dist. (Area B-Soc Sci) 3	Courses to be taken Fall Semester Elective (300-400) 3 300 Operating Systems Intro. 3 CIS Elective (300-400) 3 EET 450 Adv. Digital Systems 3 EET Elective (300-400) 3 CIS Courses to be taken Spring Semester 401 Interfacing 3 EET 430 Adv. Communication Systems 3 EET Elective 3 EET Gen Ed Dist. (Area A-Humanities) 3 Gen Ed Dist. (Area B-Soc Sci)	Courses to be taken Fall Semester Elective (300-400) 300 Operating Systems Intro. Elective (300-400) 450 Adv. Digital Systems Elective (300-400) 300 Operating Systems Intro. Elective (300-400) Elective (300-400) Courses to be taken Spring Semester 401 Interfacing 430 Adv. Communication Systems Elective Gen Ed Dist. (Area A-Humanities) Gen Ed Dist. (Area B-Soc Sci) Courses to be taken Spring Semester 401 Interfacing 401 Interfacing EET 402 Adv. Communication Systems Elective Gen Ed Dist. (Area A-Humanities) Gen Ed Dist. (Area B-Soc Sci)		

prog rev cmprt eng tech bs with IT as of 3 03

		NEW	DROPPED	MA	JOR REVISIO	ON <u>X</u>	FOR INFORMATION	NONLY			
Co	lleg	e College of	Technical Scie	ences	Program Ar	ea Electro	onics Eng Tech AAS	Date xxxxxxxx			
Submitter		Ch	air/Dean		Date						
			signatur	-			signature				
	Please provide a brief explanation & rational for the proposed revision(s)										
			-		-		the program with the	_			
pro	gra	m noted. At	tach appropria				lease indicate change	s by shading the			
					appropriate co	ells.					
		FRESHMAN	YEAR								
	Cou		n Fall Semester								
IET	100	Intro to Ind/Eng	ineering Tech	3	IT .	100 Intro t	o Ind/Engineering Tech	3			
EET "		Intro to Electrici	-	5			• •				
ENGL	111	Written Commu	inication I	3							
MATH	112	College Algebra	3	3							
SPCH	141	Fund. of speech	1	3							
		OR									
SPCH	142	Interpersonal C	ommunication	3							
_		oo to bo takan	Spring Semester								
CIS DRFT		Intro To Compu Intro. to CAD	iters	3 3							
EET		Electronics Fun	domontolo I	ა 5							
ENGL		Written Commu		3							
MATH		Trigonometry (2							
IVIATO	123	rngonometry (Alea C)	2							
		SOPHOMOR	E YEAR								
	Cou	ses to be take	n Fall Semester								
CIS	115	Intro. To Progra	ımming	3							
EET	205	Communication	s Fund.	4							
EET	207	Digital Fundame	entals	5							
PHYS	234	Fund. of Physic	s I lab (Area C)	1							
PHYS	231	Fund. of Physic	s I (Area C)	3							
c	ours	es to be taken	Spring Semester								
EET		Electronic Fund		4							
EET			ip. Design & Feb.	4							
MATH		Intro. to Calculu		3							
PHYS		Fund of Physics		3							
PHYS		Fund of Physics		1							
0	200	•	rea B - ABET req.)	3							
		Con La Diot (Al	ou b Abel leq.)	5		•					

		NEW	DROPPED	MA	JOR REVISIO	ON <u>X</u>	FOR INFORMATION	NONLY			
Co	lleg	e College of	Technical Scie	ences	Program Ar	ea Electro	onics Eng Tech AAS	Date xxxxxxxx			
Submitter		Ch	air/Dean		Date						
			signatur	-			signature				
	Please provide a brief explanation & rational for the proposed revision(s)										
			-		-		the program with the	_			
pro	gra	m noted. At	tach appropria				lease indicate change	s by shading the			
					appropriate co	ells.					
		FRESHMAN	YEAR								
	Cou		n Fall Semester								
IET	100	Intro to Ind/Eng	ineering Tech	3	IT .	100 Intro t	o Ind/Engineering Tech	3			
EET "		Intro to Electrici	-	5			• •				
ENGL	111	Written Commu	inication I	3							
MATH	112	College Algebra	3	3							
SPCH	141	Fund. of speech	1	3							
		OR									
SPCH	142	Interpersonal C	ommunication	3							
_		oo to bo takan	Spring Semester								
CIS DRFT		Intro To Compu Intro. to CAD	iters	3 3							
EET		Electronics Fun	domontolo I	ა 5							
ENGL		Written Commu		3							
MATH		Trigonometry (2							
IVIATO	123	rngonometry (Alea C)	2							
		SOPHOMOR	E YEAR								
	Cou	ses to be take	n Fall Semester								
CIS	115	Intro. To Progra	ımming	3							
EET	205	Communication	s Fund.	4							
EET	207	Digital Fundame	entals	5							
PHYS	234	Fund. of Physic	s I lab (Area C)	1							
PHYS	231	Fund. of Physic	s I (Area C)	3							
c	ours	es to be taken	Spring Semester								
EET		Electronic Fund		4							
EET			ip. Design & Feb.	4							
MATH		Intro. to Calculu		3							
PHYS		Fund of Physics		3							
PHYS		Fund of Physics		1							
0	200	•	rea B - ABET req.)	3							
		Con La Diot (Al	ou b Abel leq.)	5		•					

NEW DROPPE	D MAJOR REVISION <u>X</u>	FOR INFORMATION	N ONLY
College College of Technical	Sciences Program Area Com	nputer Eng Tech AAS	Date 3 12 03
Submitter	Chair/Dean	Date	
si	gnature	signature	
Please provide a	a brief explanation & rational for	the proposed revision	n(s)

Replace CPET 301 Discrete Mathematics with CIS Elective

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 YEAR			FRESHMAN YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
IET	100 Intro to Ind/Engineering Tech	3	ΙΤ	100 Intro to Ind/Engineering Tech	3
EET	101 Intro to Electricity/Electronics	5	EET	101 Intro to Electricity/Electronics	5
ENGL	111 Written Communication I	3	ENGL	111 Written Communication I	3
MATH	112 College Algebra	3	MATH	112 College Algebra	3
CIS	111 Integrated Bus. Applications	3	CIS	111 Integrated Bus. Applications	3
(Courses to be taken Spring Semester			Courses to be taken Spring Semester	
	Soc Sci Elective (Area B)	3		Soc Sci Elective (Area B)	3
CIS	115 Intro. To Programming	3	CIS	115 Intro. To Programming	3
EET	103 Electronics Fundamentals I	5	EET	103 Electronics Fundamentals I	5
ENGL	112 Written Communication II	3	ENGL	112 Written Communication II	3
MATH	125 Trigonometry (Area C)	2	MATH	125 Trigonometry (Area C)	2
	SOPHOMORE YEAR			SOPHOMORE YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
CIS	155 Programming Level I	3	CIS	155 Programming Level I	3
EET	207 Digital Fundamentals	5	EET	207 Digital Fundamentals	5
SPCH	141 Fund. of speech	3	SPCH	141 Fund. of speech	3
	OR			OR	
SPCH	142 Interpersonal Communication	3	SPCH	142 Interpersonal Communication	3
CPET	260 Networking I	3	CPET	260 Networking I	3
PHYS	231 Fund. of Physics I (Area C)	3	PHYS	231 Fund. of Physics I (Area C)	3
PHYS	234 Fund. of Physics I lab (Area C)	1	PHYS	234 Fund. of Physics I lab (Area C)	1
(Courses to be taken Spring Semester			Courses to be taken Spring Semester	
EET	204 Electronic Fund. II	4	EET	204 Electronic Fund. II	4
CPET	201 Computer Hardware I	3	CPET	201 Computer Hardware I	3
CPET	301 Discrete Mathematics	3	CIS	Elective (CIS)	3
MATH	133 Intro. to Calculus	3	MATH	133 Intro. to Calculus	3
	Gen Ed Dist (Area B - ABET req.)	3		Gen Ed Dist (Area B - ABET req.)	3
		67	** .		67

NEW DROPPED _	MAJOR REVISION _	X FOR INFORMATIO	N ONLY
College College of Technical Sc	iences Program Area C	omputer Eng Tech BS	Date 3 13 03
Submitter	Chair/Dean	Date _	
signature IS on origin	nal	signature IS on original	
Please provide a b	rief explanation & rational	for the proposed revisio	n(s)

Replace CPET 301 Discete Mathematics with CIS Elective

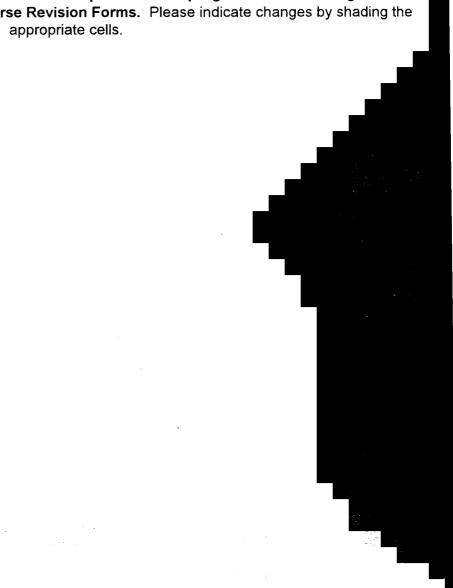
Please provide in the space below a "before & after" picture of the program with the changes in the program noted. Attach appropriate Course Revision Forms. Please indicate changes by shading the appropriate cells.

	FRESHMAN YEAR FRESHMAN YEAR				
	Courses to be taken Fall Semester		Course	s to be taken Fall Semester	
IET :	100 Intro to Ind/Engineering Tech	3	ΙΤ	100 Intro to Ind/Engineering Tech	3
EET	101 Intro to Electricity/Electronics	5	EET	101 Intro to Electricity/Electronics	5
ENGL	111 Written Communication I	3	ENGL	111 Written Communication I	3
MATH	112 College Algebra	3	MATH	112 College Algebra	3
CIS	111 Integrated Bus. Applications	3	CIS	111 Integrated Bus. Applications	3
	Courses to be taken Spring Semester			Courses to be taken Spring Semester	
	Soc Sci Elective (Area B)	3		Soc Sci Elective (Area B)	3
CIS	115 Intro. To Programming	3	CIS	115 Intro. To Programming	3
EET	103 Electronics Fundamentals I	5	EET	103 Electronics Fundamentals I	5
ENGL	112 Written Communication II	3	ENGL	112 Written Communication II	3
MATH	125 Trigonometry (Area C)	2	MATH	125 Trigonometry (Area C)	2
	SOPHOMORE YEAR			SOPHOMORE YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
CIS	155 Programming Level i	3	CIS	155 Programming Level I	3
EET	207 Digital Fundamentals	5	EET	207 Digital Fundamentals	5
SPCH	141 Fund. of speech	3	SPCH	141 Fund. of speech	3
	OR	•		OR	•
SPCH	142 Interpersonal Communication	3	SPCH	142 Interpersonal Communication	3
CPET	260 Networking I	3	CPET	260 Networking I	3
PHYS	231 Fund. of Physics I (Area C)	3	PHYS	231 Fund. of Physics I (Area C)	3
PHYS	234 Fund. of Physics I lab (Area C)	1	PHYS	234 Fund. of Physics I lab (Area C)	1
	Courses to be taken Spring Semester			Courses to be taken Spring Semester	
EET	204 Electronic Fund. II	4	EET	204 Electronic Fund. II	4
CPET	201 Computer Hardware I	3	CPET	201 Computer Hardware I	3
CPET	301 Discrete Mathematics	3	CIS	Elective (300-400)	3
MATH	133 Intro. to Calculus	3	MATH	133 intro. to Calculus	3
	Gen Ed Dist (Area B - ABET req.)	3		Gen Ed Dist (Area B - ABET req.)	3
	JUNIOR YEAR		· · · · ·	JUNIOR YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
CIS	360 Business Telecomm. & Networking	3	CIS	360 Business Telecomm. & Networking	3
EET	305 Digital Systems	3	EET	305 Digital Systems	3
MATH	220 Calc. & Analytic Geo. I	5	MATH	220 Calc. & Analytic Geo. I	5
	Courses to be taken Spring Someston			Courses to be taken Caring Course	
CIS	Courses to be taken Spring Semester 255 Programming Level II	3	CIS	Courses to be taken Spring Semester	2
UIS	Elective (300-400)	3 3	CIS	255 Programming Level II	3
	Elective (300-400)	3		Elective (300-400) Elective (300-400)	3 3
	Math/Sci. Elective	4		Math/Sci. Elective	3 4
	Gen Ed Dist. (Area A)	3		Gen Ed Dist. (Area A)	3
	Con Ed Diot. (Arca A)	J		Och La Dist. (Alea A)	J

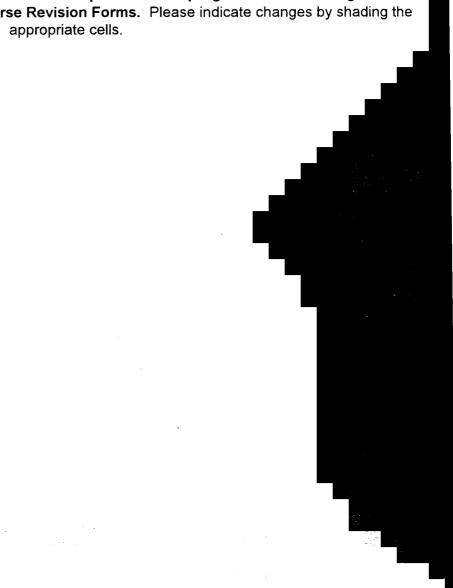
	SENIOR YEAR			SENIOR YEAR	
	Courses to be taken Fall Semester			Courses to be taken Fall Semester	
	Elective (300-400)	3		Elective (300-400)	3
CIS	300 Operating Systems Intro.	3	CIS	300 Operating Systems Intro.	3
	Elective (300-400)	3		Elective (300-400)	3
EET	450 Adv. Digital Systems	3	EET	450 Adv. Digital Systems	3
CIS	Elective (300-400)	3	CIS	Elective (300-400)	3
	Courses to be taken Spring Semester			Courses to be taken Spring Semester	
EET	401 Interfacing	3	EET	401 Interfacing	3
EET	430 Adv. Communication Systems	3	EET	430 Adv. Communication Systems	3
	Elective	3		Elective	3
	Gen Ed Dist. (Area A-Humanities)	3		Gen Ed Dist. (Area A-Humanities)	3
	Gen Ed Dist. (Area B-Soc Sci)	3		Gen Ed Dist. (Area B-Soc Sci)	3
		124			124

prog rev cmprt eng tech bs with IT as of 3 $\overline{03}$

	N	IEW DROPPED	MAJOR	REVISION	X FOR IN	FORMATIO	N ONLY
Co		College of Technical		_	g Technology		Date xxxxxxx
	•	Submitter		ean		Date	
		.	nature		signature		
		Please provide a	brief explanatio	n & rational t	for the propo	sed revisio	n(s)
Plea	se pro	ovide in the space be	low a "before &	after" pictur	e of the prog	ram with th	e changes in the
	-	noted. Attach approp		_			
			appr	opriate cells.			
	F	FRESHMAN YEAR					
(Course	es to be taken ANY Semes	ster				
CIS		ntro To Computers	3				
ENGL		Written Communication I	3				
SPCH		Fundamentals of Speech	3				
MATH		Math for Liberal Arts	4				
846711		OR Saliana Alaahaa	2				
MATH	HZC	College Algebra	3				
	Course	es to be taken Fall Semes	ter				
AG	100 L	eadership Development	2				
AG		Animal Science	3				
AG	102 F	Plant Science	3				
AG		Ag. Marketing & Economics	3				
AG	150 <i>F</i>	Agricultural Computing	3				
С	ourses	s to be taken Spring Seme	ester e				
AG		arm Management	3				
		Selectives	6				
BIOL		Essential of Biology (Area C)	4				
		DR .					
CHEM	111 (General Chemistry (Area C)	3		•		
	5	SOPHOMORE YEAR					
		es to be taken Fall Semes	ter				
AG		Crop Production	4				
AG		Forage & Range Mgmt.	4				r Q.S. T.
-		Selectives	6				
	`		•	•			**************************************
C	OURGGG	to he taken Spring Some	setor				
AG	ourses 204 S	s to be taken Spring Seme	ester 4				•
AG AG		Agricultural Pest Mgmt.	4				
AG AG		ivestock Feeding	4				
	<u>-</u> →→ L	areatook rooding	7				
AG		INESS EMPHASIS SELEC	_				
ACCT		Principles of Accounting I (F)	3				
ACCT	262 5	Dringinles of Association II (C)	2				



	N	IEW DROPPED	MAJOR	REVISION	X FOR IN	FORMATIO	N ONLY
Co		College of Technical		_	g Technology		Date xxxxxxx
	•	Submitter		ean		Date	
		.	nature		signature		
		Please provide a	brief explanatio	n & rational t	for the propo	sed revisio	n(s)
Plea	se pro	ovide in the space be	low a "before &	after" pictur	e of the prog	ram with th	e changes in the
	-	noted. Attach approp		_			
			appr	opriate cells.			
	F	FRESHMAN YEAR					
(Course	es to be taken ANY Semes	ster				
CIS		ntro To Computers	3				
ENGL		Written Communication I	3				
SPCH		Fundamentals of Speech	3				
MATH		Math for Liberal Arts	4				
846711		OR Saliana Alaahaa	2				
MATH	HZC	College Algebra	3				
	Course	es to be taken Fall Semes	ter				
AG	100 L	eadership Development	2				
AG		Animal Science	3				
AG	102 F	Plant Science	3				
AG		Ag. Marketing & Economics	3				
AG	150 <i>F</i>	Agricultural Computing	3				
С	ourses	s to be taken Spring Seme	ester e				
AG		arm Management	3				
		Selectives	6				
BIOL		Essential of Biology (Area C)	4				
		DR .					
CHEM	111 (General Chemistry (Area C)	3		•		
	5	SOPHOMORE YEAR					
		es to be taken Fall Semes	ter				
AG		Crop Production	4				
AG		Forage & Range Mgmt.	4				r Q.S. T.
-		Selectives	6				
	`		•	•			**************************************
C	OURGGG	to he taken Spring Some	setor				
AG	ourses 204 S	s to be taken Spring Seme	ester 4				•
AG AG		Agricultural Pest Mgmt.	4				
AG AG		ivestock Feeding	4				
	<u>-</u> →→ L	areatook rooding	7				
AG		INESS EMPHASIS SELEC	_				
ACCT		Principles of Accounting I (F)	3				
ACCT	262 5	Dringinles of Association II (C)	2				



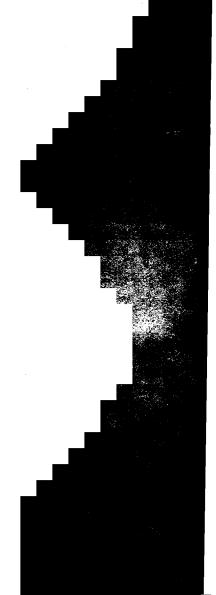
AG	245 Livestock Production (F)	4
AG -	279 Cooperative Education (F/S)	€
BUS	100 Intro. To Business (F)	3
BUS	245 Personal Finance (F)	3
BUS	250 Business Statistics (F)	3
BUS	271 Legal Environ. of Business (S)	3
ECON	241 Microeconomic Principles (F)	3
AGRI	TECHNOLOGY EMPHASIS SELECT	ΓIVES
AG	279 Cooperative Education (F/S)	6

279 Cooperative Education (F/S)	6
110 Intro. to Ag. Mach./Equip (S)	2
130 Intro. to Ag. Tractors (F)	3
134 Auto/Dies Elt/Electronic Sys. I (F/S)	4
204 Intro. to Hydraulics & Pneum. (F)	2
214 Intro. to Hydra/Pneum. Lab (F)	2
156 Introduction to CAD (F/S)	3
244 Topo. Mapping & GIS Apps. (S)	3
140 Intro. To Welding/Cutting (F/S)	3
100 Ind. Safety/Waste Mgmt. (S)	2
	110 Intro. to Ag. Mach./Equip (S) 130 Intro. to Ag. Tractors (F) 134 Auto/Dies Elt/Electronic Sys. I (F/S) 204 Intro. to Hydraulics & Pneum. (F) 214 Intro. to Hydra/Pneum. Lab (F) 156 Introduction to CAD (F/S) 244 Topo. Mapping & GIS Apps. (S) 140 Intro. To Welding/Cutting (F/S)

MET L
140 Intro

140 Intro. To Welding/Cutting (F/S)
111 Ind. Safety/Waste Mgmt. (S)

Ag AAS prog rev 02



3