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.

- 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.
- 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.
- The Chancellor approves or disapproves the proposal.

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

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

Chair/Dean of the submitting college v	who then notific	es the originator.)	$\overline{}$		4184
Proposal # 02-24 Title: AOT	B+1	IS TECH AAK	, /h00	ram 🗸	evision
(proposal explanation, submitter and college	chair/dean signatu	ires on attached program/	degree or cour	lse revision forn	n)
Received by ACAD Senate Forwarded to Teacher Ed Council	Date 4/1/03	Approved		Disapproved	
		Signature			Date
Forwarded to Gen Ed Committee		Approved		Disapproved	
Returned to ACAD Senate	· · · · · · · · · · · · · · · · · · ·	Signature			Date
Forwarded to Curriculum Committee	4/.100	Approved	12 11	Disapproved	*
Torwarded to Currentain Committee	74400	lippid vo	X 111	Za ~~	(11.100
Returned to ACAD Senate for Vote	4/1/03	Signature Approved		Disapproved	4 12 13
Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting	4/9/03	Signature		Disapproved	Date
Forwarded to Provost for Approval/Disapproval	5/18/03	Signature Approved	X 1. 1391	Disapproved	Date 5/23/03
Forwarded to Chancellor for Approval/Disappro	oval 5/27/0	Signature Approved	Civel	isapproved	1303
Copies sent to originating college and registrar's office	45/03	Signatule		· ve	Date

PROGRAM/DEGREE REVISION FORM 3/31/03

NEW	DROPPED_	MAJOR REVI	SION <u>X</u>	_ FOR INFORM	ATION O	NLY		
College	<u>Technical Sci</u>	ences Program A	rea	4g Operations Tec	chnology		3/31/03	
Submitter S	Thomas m. Walkam H ignature	tofelch Luly Chair/De	ean <u>Sur</u> Signature (ndicates "college" level	approval)	Date _	11.1.05	
Please pro	vide a brief exp	lanation & rational	e for the pr	oposed revision(s	s).			
-	_	e below a "before a se Revision Forms.	_		•		nges in the program no	oted.

PROPOSAL TITLE Revision of Ag Operations Technology B.S. Degree

		OLD PROGRAM					ľ	NEW PROGRAM		
Course			Cre	dits		Course			Cr	edits
Prefix	#	Course Title	Fall	Spr.		Prefix	#	Course Title	Fall	Spr.
giriya un yeta	- 116	Freshman Year	Make soomen				Ministra	Freshman Year		JAPI WASH
AOT	101	Intro. to Ag Oper Tech	2]	IT	100	Intro to Technology	3	
AG	101	Animal Science	3]	AG	101	Animal Science	3	
AG	102	Plant Science	3]	AG	102	Plant Science	3	
]	AG	105	Ag Marketing & Economics	3	
AG	150	Ag Computing	3]	AG	150	Ag Computing		3
]	AG	125	Farm Management		3
ENGL	111	Written Comm. I	3			ENGL	111	Written Comm. I	3	
SPCH	_141	Fundamentals of Speech	3]	SPCH	141	Fundamentals of Speech		3
AGMT	110	Intro Ag Machines		2		or				
ATDI	134	Electrical Systems I		4		SPCH	142	Interpersonal Comm		3
CIS	171	Data Base I		3		CIS	110	Intro to Computing	3	
MATH	110	Liberal Arts Math		4	1	MATH	110	Math for Liberal Arts		4
or]	or				
MATH	112	College Algebra		3	1	MATH	112	College Algebra		3
TECH	100	Ind. Safety/Waste Mgt		2		Distribut	ion Cre	edits (A, B, or C)		3
		TOTAL	17 1	4/15				TOTAL	18 1	5/16
Ethill Lone		Sophomore Year	1.1.22		111720		Herena	Sophomore Year		4.1
DIES	204	Intro Hydral & Pneum	2			AG	218	Crop Production	4	
DIES	214	Hydral & Pneum Lab	2			AG	245	Livestock Production	3	
						or				
ENGL	112	Written Comm. II	3			AG	254	Forage & Range Mgmt.	4	
METL	140	Intro Weld & Cutting	3			ENGL	112	Written Comm. II	3	
PHYS	114	Foundations of Physic Sci	4	ie .]					
Program		tives	3]	Option S	electiv	es (lower division)	6	
AG	204	Soils		4]-:	AG	204	Soils		4
AG	230	Ag Pest Mgmt		4]	AG	230	Ag Pest Mgmt		4
DRFT	244	Topog Map & GIS Appl		3 -		AG	244	Livestock Feeding		4
Option S	elective			3		Option S	electiv	es (lower division)		3
***		TOTAL	17	14]			TOTAL	16/17	15
					_					

Revision of Ag Operations Technology B.S. Degree Continued

OLD PROGRAM

Course			Cre	edits
Prefix	#### #	Course Title	Fall	Spr.
gle ill	Tajor I	Junior Year		14
AGED	353	Coop Bus. Principles	3	
AOT	301	Global Posit. Sys.	2	
ATDI	265	Heating & Air	4	
BREN	330	Water Resources Law	2	
Distribut	ion Red	quirement (Area B)		3
AG	305	Ag Commodity Mktg		3
AG	350	Ag Computer Mgmt		3
A&TE	333	Const Tech		3
MFTG	308	Industrial Electronics		4
Program	Select	tives		3
		TOTAL	14	16
	NGB .	Senior Year	TO THURSDAY	
AG	440	Trends & Issues in Ag	3	
AGMT	410	Ag Machinery Mgmt.	3	
		ą. Area A	3	
Program	Select	ives	3	
AMT	480	Current Model Technology		3
ARNR	450	Range Watershed Mgmt.		3
TSCI	304	Fuels and Lubes		3
		q. Area A		3
Distribut	ion Red	a. Area B		3
		TOTAL	13	15
		TOTAL DEGREE CREDITS	120/	/121

NEW PROGRAM

	IN	EW PROGRAM		
Course	manipa juan	TO THE PARTY OF TH	Credits	
Prefix	#	Course Title	Fall	Spr.
anger, all		Junior Year	HOMERO CASA O DAS EL	
AOT	3XX	Econ. Devel. In Rural Areas	2	
AOT	301	Global Positioning Systems	2	
AOT	3XX	Soil & Water Mgmt.	2	<u> </u>
		dits (Area A, B, or C)	6	
AG	305	Ag Commodity Mktg.		3
AG	350	Ag Computer Mgmt.	3	
			ļ	
Option S	elective	s (300 & Above)	 	3
Option R	Requiren	nents		6
Distribut	ion Cred	dits (Area A, B, or C)		3
		TOTAL	15	15
animinated a	na an	Senior Year		er de la comi
AG	440	Trends & Issues in Ag	3	
Diotributi	ion Cros	Hito (Area A. B. er C)	_	-
		dits (Area A, B, or C)	3	_
		s (300 & Above)	6	-
Option R	equiren	terits	3	1
		s (300 & Above)		6
Distributi	on Cred	fits (Area A, B, or C)		3
Electives	3			0/2
		TOTAL	15	12/14
		TOTAL DEGREE CREDITS	1	20

Lower Division Option Selectives (Choose 1 Option)

Course			Cre	dits
Prefix	#	Course Title	Fali	Spr.
	allegates		Ale o Francisco	111
	⊣∟	ower Division is		
		isted Together		
	v	<i>l</i> ith Upper Division [
	ir	n Old Program	-	<u> </u>
	{			
			-	
		The state of the s		
		TOTAL	_	

Course			Cr	edits
Prefix	#	Course Title	Fall	Spr
A	gribusiı	ness Option Selectives (9 Cr. Nee	eded)	
ACCT	261	Principles of Accounting I	3	
AG	279	Cooperative Education		6
BUED	245	Personal Finance	3	
BUS	100	Intro to Business	3	
BUS	110	Creative Problem Solving		3
BUS	250	Business Statistics		3
BUS	271	Legal Environment of Business		3
Agr	i-Techn	ology Option Selectives (9 Cr. N	eeded)
ATDI	134	Auto/Diesel Electrical/Elec. Sys.	4	
AGMT	120	Forage Implements		3
AGMT	130	Introduction to Tractors	3	
AGMT	205	Intro to Grain Harvesting Equip	3	
AGMT	210	Tillage & Planting Implements		3
IT	130	Construction Technology		3
MMETL	140	Introduction to Welding Cutting		3
ATDI	265	Heating & Air Conditioning	4	
IT	111	Ind. Safety/Waste Mgt		2
		TOTAL		

Upper Division Option Requirements & Selectives (Choose 1 Option)

Agribusiness Option Selectives

Course	Jalle Jar		Cre	dits
Prefix	#	Course Title	Fall	Spr.
. A established	gribusi	ness Option Selectives (12 Cred	dits)	
ACCT	261	Principles of Accounting	3	
AG	105	Agricultural Marketing & Econ.	3	
BUS	100	Introduction to Business	3	
BUS	271	Legal Environment of Business	3	
BUS	300	Management in Organizations		3
BUS	410	International Business		3
ECON	241	Microeconomic Principles		3
			ļ	
		TOTAL	1	2

	A	gribusiness Option		
Course	of Children Child			edits
Prefix	#	Course Title	Fall	Spr.
Agri	busine	ss Option Requirements (9 Cr. N	eeded	l)
BUS	300	Mgmt. In Organizations	3	
BUS	332	Human Resource Mgmt.		3
BUS	335	Principles of Mktg.	3	
Ag	ribusin	ess Option Selectives (15 Cr. Ne	eded)	
BUS	350	Financial Mgmt.	3	
BUS	380	Operations Mgmt.	3	
BUS	3xx	Project Mgmt.	3	
BUS	405	Ethics in Mgmt. & Tech.	3	
BUS	430	Senior Project		3
SBM	402	Small Business Mgmt.		3
BUS	436	Sales & Sales Mgmt.	3	
SBM	416	New Venture Development		3
AOT	479	Cooperative Education	6	
		TOTAL	2	4

OLD PROGRAM

Agricultural Mechanics Options Selectives

Course			Cre	edits
Prefix	#	Course Title	Fali	Spr.
Agricu	itural N	Mechanics Option Selections (12	Cred	lits)
AGMT	120	Forage Implements		3
AGMT	130	Introduction to Tractors	3	
AGMT	205	Intro to Grain Harvesting Equip	3	
AGMT	210	Tillage & Planting Implements		3
AGMT	479	Cooperative Education		6
DIES	104	Introduction to Diesel Engines	3	
DIES	114	Intro to Diesel Engines Lab	3	
				<u> </u>
		TOTAL	1	2

Agricultural Production Options Selectives								
Course			Cre	dits				
Prefix	#	Course Title	Fall	Spr.				
Agricultural Mechanics Option Selectives (12 Credits)								
AG	100	Leadership Development	2					
AG	125	Farm Management		3				
AG	218	Crop Production		4				
AG	244	Livestock Feeding		4				
AG	245	Livestock Production	4					
AG	254	Forage & Range Mgmt.	4					
AG	479	Cooperative Education	6					
	TOTAL 12							

NEW PROGRAM Agri-Technology Option

Course	and MangaPhr		Cr	edits
Prefix	#	Course Title	Fail	Spr.
Agri-Te	chnolo	gy Option Requirements (10 Crs	. Nee	ded)
EENT	308	Industrial Electronics		4
TSCI	304	Fuels & Lubricants		3
AGMT	410	Ag Machinery Mgmt.	3	
Agri-	Techno	logy Option Selectives (15 Crs. I	Veede	ed)
AOT	3xx	Geographic Information Syst.	3	
MEET	3xx	Instrumentation & Data Logging	3	
IN PGEN	3xx	Alternative Power Sources		3
TSCI	415	Pollution Prevention		3
AG	479	Cooperative Education	6	
MMETL	3xx	Repair & Maintenance Welding	3	
BUS	436	Sales & Sales Mgmt.	3	
SBM	416	New Venture Development		3
		, TOTAL	(2	24)

			140		
Course			Credits		
Prefix	# Course Title		Fall	Spr.	
		je romania sa		·	
					
				 	
				i	

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

PROGRAM/DEGREE REVISION FORM 3/31/03

NEW ____ DROPPED ____ MAJOR REVISION <u>X</u> FOR INFORMATION ONLY

Colleg	ge <u>Technical Sciences</u> Pro	gram Area <u>Agri</u>	culture Tech	nology	Date	
Subm	itter <u>Welliam It Danley</u> Signature	Chair/Dean Signature (india)	tes Vcollege" leve	approv	· Date 4 · 1 · U 3	
Please	e provide a brief explanation &	rationale for the propo	sed revision	(s) <u>.</u>		
	e provide in the space below a "l h appropriate Course Revision l				with the changes in the program the appropriate cells.	noted.
	PROPOSAL TITLE	Revision of Ag Tech	nology - AA	S. Deg	gree	
	OLD PROGRAM			Ň	EW PROGRAM	
	FRESHMAN YEAR		Course Prefix	•#	Course Title	Cre Fall
	Courses to be taken ANY Semeste	r			التناوية والمراجعة في المراجعة في المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المر	***
CIS	110 Intro To Computers	3	IT_	100	Intro to Technology	3
ENGL	111 Written Communication I	3	AG	101	Animal Science	3
SPCH	141 Fundamentals of Speech	3	AG	102	Plant Science	3
MÅTH	110 Math for Liberal Arts	4	AG	105	Ag Marketing & Economics	3
	OR		AG	150	Ag Computing	1
MATH	112 College Algebra	3	AG	125	Farm Management	
			ENGL	111	Written Comm. I	3
	Courses to be taken Fall Semeste	r	SPCH	141	Fundamentals of Speech	
AG	100 Leadership Development	2	or	440		1
AG	101 Animal Science	3	SPCH	142	Interpersonal Comm	1
AG	102 Plant Science	3	CIS	110	Intro to Computing	3
AG	105 Ag. Marketing & Economics	3	MATH	110	Math for Liberal Arts	
AG	150 Agricultural Computing	3	or	440	O-H Alb	
			MATH	112	College Algebra	
(Courses to be taken Spring Semest	er	Distribut	ion Cre	edits (A, B, or C)	40.4
AG	125 Farm Management	3		1.00	TOTAL	18 1
	Selectives	6	40	040	Sophomore Year	1 4
BIOL	151 Essential of Biology (Area C)	4	AG	218	Crop Production	4
	OR		AG	245	Livestock Production	3
CHEM	111 General Chemistry (Area C)	3	or	054		1
			AG	254	Forage & Range Mgmt.	4
	SOPHOMORE YEAR	•	ENGL	112	Written Comm. II	3
	Courses to be taken Fall Semester	•	0.4		<u> </u>	
AĞ	218 Crop Production	4			res (lower division)	6
AG	254 Forage & Range Mgmt.	4	AG	204	Soils	
	Selectives	6	AG	230	Ag Pest Mgmt	
		1	AG	244	Livestock Feeding	
C	ourses to be taken Spring Semeste	er :	Option S	electiv	es (lower division)	4014=
AG	204 Soils	4	L		TOTAL	16/17
AG	230 Agricultural Pest Mgmt.	4				
4G	244 Livestock Feeding	4				

NEW PROCRAM

Course			Cre	edits
Prefix	•#	Course Title	Fall	Spr.
		Freshman Year	96 1 V	Taj Sultraya.
IT	100	Intro to Technology	3	
AG	101	Animal Science	3	
AG	102	Plant Science	3	
AG	105	Ag Marketing & Economics	3	
AG	150	Ag Computing		3
AG	125	Farm Management		3
ENGL	111	Written Comm. I	3	
SPCH	141	Fundamentals of Speech		3
or				
SPCH	142	Interpersonal Comm		3 .
CIS	110	Intro to Computing	3	
MATH	110	Math for Liberal Arts		4
or			1	
MATH	112	College Algebra		3
Distribut	ion Cre	edits (A, B, or C)		3
		TOTAL	18 1	5/16
		Sophomore Year	XX-7	
AG	218	Crop Production	4	
AG	245	Livestock Production	3	
or				
AG	254	Forage & Range Mgmt.	4	
ENGL	112	Written Comm. II	3	
Option S	electiv	es (lower division)	6	
AG	204	Soils		4
AG	230	Ag Pest Mgmt		4
AG	244	Livestock Feeding		4
Option S	electiv	es (lower division)		3
		TOTAL	16/17	15

OLD PROGRAM

NEW PROGRAM

Lower Division Option Selectives (Choose 1 Option)

AG	RIBUSINESS EMPHASIS SELECTIVES	\$
ACCT	261 Principles of Accounting I (F)	3
ACCT	262 Principles of Accounting II (S)	3
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)	-0 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		2
DIES DIES	204 Intro. to Hydraulics & Pneum. (F)	2 2
	204 Intro. to Hydraulics & Pneum. (F) 214 Intro. to Hydra/Pneum. Lab (F)	2 2 3
DIES	204 Intro. to Hydraulics & Pneum. (F)	2

140 Intro. To Welding/Cutting (F/S)

100 Ind. Safety/Waste Mgmt. (S)

METL

TECH

Course			Cre	edits
Prefix	#	Course Title	Fall	Spr.
Aç	gribusir	ness Option Selectives (9 Cr. Nec	eded)	7 19.70
ACCT	261	Principles of Accounting I	3	
AG	279	Cooperative Education		6
BUED	245	Personal Finance	3	
BUS	100	Intro to Business	3	
BUS	110	Creative Problem Solving		3
BUS	250	Business Statistics		3
BUS	271	Legal Environment of Business		3
Agri	-Techn	ology Option Selectives (9 Cr. N	eeded)
ATDI	134	Auto/Diesel Electrical/Elec. Sys.	4	
AGMT	120	Forage Implements		3
AGMT	130	Introduction to Tractors	3	
AGMT	205	Intro to Grain Harvesting Equip	3	
AGMT	210	Tillage & Planting Implements		3
IT	130	Construction Technology		3
H	140	Introduction to Welding Cutting		3
ATDI	265	Heating & Air Conditioning	4	
IT	111	Ind. Safety/Waste Mgt		2
		TOTAL		

METL

3

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

NEW X DROPPED	_ MAJOR REVISION _	FOR INFORMATION	ONLY	
College	es Program Area	Industrial Technology	Date	
Submitter July	Chair/Dean	nature (indicates "college" level approval)	Date	
Please provide a brief expl Better prepare AO		r the proposed revision(s): or careers related to their mo	ajors	
Please provide the following College: Technical Science Program Area: Industrial Date: 3/31/03 PGE Course Prefix & No.: X	ces al Technology EN			
Course Title: Alternative Credits: 3	Power Sources			
Required by:				
Selective in: AOT Elective in: CEEFFI General Education:				
Lecture: 3 Lecture/Lab: Contact hours lecture: 3 Contact hours lab:				
Current Catalog Descrip	tion (include all prer	equisites):		
Proposed or New Catalog	g Description (include	e all prerequisites):		
This course examines the s generation.	selection and applicati	on of alternate energy sourc	ces for power	
Course Outcome Objecti	ives:			
The student will examine to generation.	he selection and applic	cation of alternate energy so	ources for power	

Additional instructional resources needed (including library materials, special equipment,

and facilities). Please note: approval does not indicate support for new faculty or

ACAD course revision form 10-10-2001 rev. 12-12-01

additional resources.

NEW	<u>X</u>	_ DROPPED	_ MAJOR REVISION _	FOR INFORMATION (ONLY	
Colleg	ge	Technical Scienc	es Program Area	Industrial Technology	Date	<i>3/31/03</i>
Subm		Dlyd (Ske 1 /	Chair/Dean Sign	ature (indicates "college" level approval)	Date _	
Pleas	_	-		the proposed revision(s): r careers related to their ma	ajors	
Colle Prog Date	ge: ram : 3/.	ovide the following Technical Science Area: Industrical Science 31/03 E. Frefix & No.: X	ces al Technology T			
Cour Cred			ation & Data Logging			
Requ	ired	by:				
Elect	ive i eral l ure:					
Cont	act l	nours lecture: 3 nours lab:				
Curr	ent (Catalog Descrip	tion (include all prere	equisites):		
Prop	osed	or New Catalog	g Description (include	all prerequisites):		
		se covers the sele g systems.	ection and application	of transducers and sensors o	as compon	nents in
Cour	se O	utcome Objecti	ives:			
The s	tude	nt will examine t	he selection and applic	ation of sensors and transdi	ucers and	the use of

Additional instructional resources needed (including library materials, special equipment,

and facilities). Please note: approval does not indicate support for new faculty or

ACAD course revision form 10-10-2001 rev. 12-12-01

data logging to collect information.

additional resources.

NIEWY	V DDODDED	MAIOD DEVICION	EOD INEODMATION ON	T.V
NEW _	<u>A</u> DROPPED	_ MAJOR REVISION _	FOR INFORMATION ON	
			Ag Operations Technology	Date <u>3/31/03</u>
C1	Thomas made	Chair/Dean		Dete
Suomiti	Signature	Chair/Dean Sign	ature (indicates "college" level approval)	Date
	organia o	, oign	maio (maiomos conege teres approvar)	
Please	provide a brief expl	lanation & rationale for	the proposed revision(s):	
			system and was abandoned wh	en we moved to
the sen	•••	-	lls for a course from MSU-Bo	
Resour	ces Law) which has	s never been offered. W	Ve will reinstate our Water Mg	mt. as a
replace	ement for BREN 33	0.		
Please	provide the followi	ng information:		
Colleg	e: Technical Scien	ces		
Progra	am Area: Ag Oper	ations Technology		
Date:	3/31/03			
Course	e Prefix & No.: A	OT 3xx		
Course	e Title: Soil & Wat	er Management		
Credit	s: 2	C		
Requi	red by: AOT			
Selecti	ive in:			
Electiv	ve in:			
Gener	al Education:			
Lectur	re: 2			
Lectur	re/Lab:			
Conta	ct hours lecture: 2	?		
Conta	ct hours lab:			

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):

This course is a study of soil and water and plant relationships. Emphasis will be on dry land soil practices, irrigation principles and practices, point source pollution, and measurement and methods of control.

Course Outcome Objectives:

- 1. Develop an awareness of the role soil, water, and the environment play in agriculture
- 2. Define new directions and challenges for agriculture including source pollution and erosion issues
- 3. Interpret government agencies role in agriculture

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

NEW _	X	DROPPED	MAJOR REVISION	FOR INFORMATION ON	ILY	
				Ag Operations Technology	_ Date _	<i>3/31/03</i>
Submitt	ter _ Si	Thomas Milled William WV gnature	hely Chair/Dean	nature (indicates "college" level approval)	Date _	
Please	pro	vide a brief expla	nation & rationale fo	r the proposed revision(s):		
Better	prep	oare AOT student	ts for careers related	to agriculture & land resource	e manaş	gement
	-	vide the followin	=			
_	ım 2	Area: Ag Opera	tions Technology			
Course	e Pr	efix & No.: AO	T 3xx			
Course Credit		~ -	Information Systems			
Requi	red	by:				
		n: AOT				
Electiv						
Gener	al E	Education:				
Lectur						
Lectur						
Conta	ct h	ours lecture: 2				
Conta	ct h	ours lab: 2				

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):

This course will involve the study of Geographic Information Systems (GIS) for natural resource and land management. Students will develop an understanding of spatial reasoning and methods used to visually inventory and analyze land based resources. GIS software, images and data sources commonly used for natural resource management by industry and government agencies will be featured in this class.

Course Outcome Objectives:

Students successfully completing this class will be able to:

- 1. Utilize various data sources for computer based visual examination of geo referenced land areas
- 2. Produce maps and visual images from geo-referenced land resource data
- 3. Understand common GIS terminology, capabilities, applications and GPS interface

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

ArcView 8.x software
ACAD course revision form 10-10-2001 rev. 12-12-01

NEWX	C DROPPED MAJO	OR REVISION _	FOR INFORMATION ON	LY	
College _	Technical Sciences Pr	ogram Area	Ag Operations Technology	_Date _	<i>3/31/03</i>
Submitter	Thomas myseles William 14 Danly Signature	Chair/Dean	nature (indicates "college" level approval)	Date _	

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

This course will provide our AOT majors with a knowledge base on rural economic development with an emphasis on cooperatives. MSU-Bozeman's AGED 353 (Coop Bus. Principles) has been difficult to take by our students because of budget contstraints.

Please provide the following information:

College: Technical Sciences

Program Area: Ag Operations Technology

Date: 3/31/03

Course Prefix & No.: AOT 3xx

Course Title: Economic Development in Rural Areas

Credits: 2

Required by: AOT

Selective in:

Elective in:

General Education:

Lecture: 2 Lecture/Lab:

Contact hours lecture: 2

Contact hours lab:

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites):

The course is an exploration of issues facing rural areas and the impacts of those issues on conducting business. The focus will include agriculturally dependent cooperatives with particular emphasis given to issues most relevant to Montana. The course will incorporate the NARFI clearinghouse to conduct environmental scans and predict potential scenarios. Prerequisites: Junior standing

Course Outcome Objectives:

- 1. Develop the tools to operate agriculturally dependent business in rural communities
- 2. Demonstrate an ability to make practical decisions important to rural business management
- 3. Demonstrate an understanding of the role cooperatives play in the Montana and U.S. economy and the key factors that result in successful cooperatives
- 4. Develop the knowledge necessary to take a leadership role in rural communities for economic development

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