ACADEMIC SENATE PROPOSAL TRACKING SHEET

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

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

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

Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page --
http://www.msun.edu/admin/provost/asproposals.htm
Documentation and forms for the curriculum process is also available on the web page:
http://www.msun.edu/admin/provost/asforms.htm

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

Proposal # 02-45	**Title:** Revise Diesel BS to include options

(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)

Signatures indicate signature on entire package!

	Date				
Received by ACAD Senate	4/15/03				
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	4/15/03	Approved	X	Disapproved	
		Signature			Date 4/15/03
Returned to ACAD Senate for Vote	4/16/03	Approved	X	Disapproved	
		Signature			Date 4/22/03
Sent to Provost's office for Full Faculty vote	4/23/03				
Voted on at Full Faculty meeting	_____	Approved	_____	Disapproved	_____
		Signature			Date
Forwarded to Provost for Approval/Disapproval	_____	Approved	_____	Disapproved	_____
		Signature			Date
Forwarded to Chancellor for Approval/Disapproval	_____	Approved	_____	Disapproved	_____
		Signature			Date
Copies sent to originating college and registrar's office	_____				

PROGRAM/DEGREE REVISION FORM

NEW ____ **DROPPED** ____ **MAJOR REVISION** __X__ **FOR INFORMATION ONLY**

College College of Technical Sciences **Program Area** Diesel Technology BS **Date** 4-15-03

Submitter signatures on original **Chair/Dean** signatures on original **Date** 4-15-03

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

Revision of Diesel bachelor degree to include options

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.

BROADFIELD DIESEL OPTION

see back page for color explanation

	FRESHMAN YEAR			**FRESHMAN YEAR**			
	Courses to be taken Either Semester			**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		ENGL	111 Written Communication I	3	
SPCH	141 Fundamentals of Speech	3		SPCH	141 Fundamentals of Speech	3	
	Courses to be taken Fall Semester				**Courses to be taken Fall Semester**		9
DIES	104 Introduction to Diesel Engines	3		DIES	104 Introduction to Diesel Engines	3	
	AND				**AND**		
DIES	114 Introduction to Diesel Engines Lab	3		DIES	114 Introduction to Diesel Engines Lab	3	
	OR				**OR**		
DIES	115 Intro. to Diesel Fuel Systems	4		DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4		ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4	
DIES	204 Intro. To Hydraulics & Pneumatics	2		DIES	204 Intro. To Hydraulics & Pneumatics	2	
DIES	214 Intro. To Hydraulics/ Pneum. lab	2		DIES	214 Intro. To Hydraulics/ Pneum. lab	2	14
	r				**Courses to be taken Spring Semester**		
DIES	104 Introduction to Diesel Engines	3		DIES	104 Introduction to Diesel Engines	3	
	AND				AND		
DIES	114 Introduction to Diesel Engines Lab	3		DIES	114 Introduction to Diesel Engines Lab	3	
	OR				**OR**		
DIES	115 Intro. to Diesel Fuel Systems	4		DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	265 Heating & Air Conditioning	4		ATDI	265 Heating & Air Conditioning	4	
				IT	111 Industrial Safety & Waste Mgmt.	2	
	SOPHOMORE YEAR				**SOPHOMORE YEAR**		10
	Courses to be taken Either Semester			**Courses to be taken Either Semester**			
MATH	110 Math for Liberal Arts	4		MATH	110 Math for Liberal Arts	4	
	OR				OR		
MATH	112 College Algebra	3		MATH	112 College Algebra	3	
CIS	110 intro to Computers	3		CIS	110 intro to Computers	3	
	Gen Ed Dist (Area A, B, or C)	3			Gen Ed Dist (Area B	3	9
	r				**Courses to be taken Fall Semester**		
ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. II	4		ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. II	4	
DIES	216 Heavy Duty Power Trains	4		DIES	216 Heavy Duty Power Trains	4	
DIES	262 Diesel Engine Diagnosis & Repair	2		DIES	262 Diesel Engine Diagnosis & Repair	2	
DIES	272 Diesel Engine Diagnosis & Repair lab	4		DIES	272 Diesel Engine Diagnosis & Repair lab	4	14
	Courses to be taken Spring Semester				**Courses to be taken Spring Semester**		

ATDI	257 Automatics	4	
DIES	219 Heavy Duty Chassis	4	
DIES	273 Diesel Shop Practices	4	
	JUNIOR YEAR		
	Courses to be taken Either Semester		
METL	155 Machining Processes	3	
	Gen Ed Dist (Area B)	3	
	Gen Ed Dist (Area B)	3	
ENGL	366 Tech. Writing/Editing (Area A)	3	
ENGL	112 Written Communicaiton II	3	
	Courses to be taken Fall Semester		
ATDI	384 Auto/Diesel Electronics Apps	4	
METL	260 Repair & Maintenance Welding	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 Spring Semester		
DIES	434 Current Model Year Tech (Capstone)	3	
DIES	450 Diagnosis of Power Shifts & HD Auto	4	
	Electives	6	
	OR		
DIES	479 Cooperative Education	6	

ATDI	257 Automatics	4		
DIES	219 Heavy Duty Chassis	4		
				8
	JUNIOR YEAR			
	Courses to be taken Either Semester			
IT	155 Machining Processes	3		
ENGL	366 Tech. Writing/Editing (Area A)	3		
	Gen Ed Dist (Area C)	3		
ENGL	112 Written Communicaiton II	3		12
	Courses to be taken Fall Semester			
ATDI	384 Auto/Diesel Electronics Apps	4		
METL	360 Repair & Maintenance Welding	3		7
	Courses to be taken Spring Semester			
DIES	314 Hydraulics & Pneumatics II	4		
DIES	373 Diesel Shop Practices	4		
TSCI	304 Fuels/Lubricants (Area C)	3		11
	SENIOR YEAR			
	Courses to be taken Either Semester			
	Gen Ed Dist (Area B)	3		
	Gen Ed Dist (Area A)	3		
	Electives	3		
	Electives	2		
	OR			
DIES	479 Cooperative Education	6		11
	Courses to be taken Fall Semester			
ATDI	400 Shop Procedures II	2		
DIES	420 Diesel Shop Mgmt.	2		
DIES	440 Advanced Fuel Systems	4		8
	Courses to be taken Spring Semester			
DIES	434 Current Model Year Tech (Capstone)	3		
DIES	450 Diagnosis of Power Shifts & HD Auto	4		7
				120

color example

DIES	434 Current Model Year Tech (Capstone)	3	CORE
METL	260 Repair & Maintenance Welding	3	OPTION
	Gen Ed Dist (Area A)		
	Gen Ed Dist (Area B)		
	Gen Ed Dist (Area C)		
	Gen Ed core courses		

PROGRAM/DEGREE REVISION FORM

NEW ____ DROPPED ____ MAJOR REVISION __X__ FOR INFORMATION ONLY

College College of Technical Sciences Program Area Diesel Technology BS **Date** 4-15-03

Submitter signatures on original **Chair/Dean** signatures on original **Date** 4-15-03

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

Revision of Diesel bachelor degree to include options

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.

				POWER GENERATION OPTION see back page for color explanation			
	FRESHMAN YEAR				**FRESHMAN YEAR**		
	Courses to be taken Either Semester				**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		ENGL	111 Written Communication I	3	
SPCH	141 Fundamentals of Speech	3		SPCH	141 Fundamentals of Speech	3	9
	Courses to be taken Fall Semester				**Courses to be taken Fall Semester**		
DIES	104 Introduction to Diesel Engines	3		DIES	104 Introduction to Diesel Engines	3	
	AND				**AND**		
DIES	114 Introduction to Diesel Engines Lab	3		DIES	114 Introduction to Diesel Engines Lab	3	
	OR				**OR**		
DIES	115 Intro. to Diesel Fuel Systems	4		DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4		ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4	
DIES	204 Intro. To Hydraulics & Pneumatics	2		DIES	204 Intro. To Hydraulics & Pneumatics	2	
DIES	214 Intro. To Hydraulics/ Pneum. lab	2		DIES	214 Intro. To Hydraulics/ Pneum. lab	2	14
	Courses to be taken Spring Semester				**Courses to be taken Spring Semester**		
DIES	104 Introduction to Diesel Engines	3		DIES	104 Introduction to Diesel Engines	3	
	AND				AND		
DIES	114 Introduction to Diesel Engines Lab	3		DIES	114 Introduction to Diesel Engines Lab	3	
	OR				**OR**		
DIES	115 Intro. to Diesel Fuel Systems	4		DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	265 Heating & Air Conditioning	4		ATDI	265 Heating & Air Conditioning	4	8
	SOPHOMORE YEAR				**SOPHOMORE YEAR**		
	Courses to be taken Either Semester				**Courses to be taken Either Semester**		
MATH	110 Math for Liberal Arts	4		MATH	110 Math for Liberal Arts	4	
	OR				OR		
MATH	112 College Algebra	3		MATH	112 College Algebra	3	
CIS	110 intro to Computers	3		CIS	110 intro to Computers	3	
	Gen Ed Dist (Area A, B, or C)	3			Gen Ed Dist (Area C)	3	9
	Courses to be taken Fall Semester				**Courses to be taken Fall Semester**		
ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. I	4					
DIES	216 Heavy Duty Power Trains	4		DIES	216 Heavy Duty Power Trains	4	
DIES	262 Diesel Engine Diagnosis & Repair	2		DIES	262 Diesel Engine Diagnosis & Repair	2	
DIES	272 Diesel Engine Diagnosis & Repair I	4		DIES	272 Diesel Engine Diag & Repair lab	4	10
	Courses to be taken Spring Semester				**Courses to be taken Spring Semester**		
ATDI	257 Automatics	4					
DIES	219 Heavy Duty Chassis	4					
				ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. I	4	

DIES	273 Diesel Shop Practices	4	
	JUNIOR YEAR		
	Courses to be taken Either Semester		
METL	155 Machining Processes	3	
	Gen Ed Dist (Area B)	3	
	Gen Ed Dist (Area B)	3	
ENGL	366 Tech. Writing/Editing (Area A)	3	
ENGL	112 Written Communicaiton II	3	
	Courses to be taken Fall Semester		
ATDI	384 Auto/Diesel Electronics Apps	4	
METL	260 Repair & Maintenance Welding	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 Spring Semester		
DIES	434 Current Model Year Tech (Capstor	3	
DIES	450 Diagnosis of Power Shifts & HD Au	4	
	Electives	6	
	OR		
DIES	479 Cooperative Education	6	

prog rev dies power gen option

PGEN	275 Gas Turbines	4	
IT	111 Ind. Safety/Waste Mgmt	2	
			10
	JUNIOR YEAR		
	Courses to be taken Either Semester		
ENGL	366 Tech. Writing/Editing (Area A)	3	
	Gen Ed Dist (Area B)	3	
ENGL	112 Written Communicaiton II	3	9
	Courses to be taken Fall Semester		
ATDI	384 Auto/Diesel Electronics Apps	4	
PGEN	325 Electrical Power Transmission	3	
PGEN	335 Data Logging & Instrumentation	3	
			10
	Courses to be taken Spring Semester		
DIES	314 Hydraulics & Pneumatics II	4	
IT	308 Industrial Electronics	4	
DIES	373 Diesel Shop Practices	4	12
	SENIOR YEAR		
	Courses to be taken Either Semester		
	Gen Ed Dist (Area A)	3	
	Gen Ed Dist (Area A)	3	6
	Courses to be taken Fall Semester		
ATDI	400 Shop Procedures II	2	
PGEN	455 Power Generation	4	
DIES	440 Advanced Fuel Systems	4	10
	Courses to be taken Spring Semester		
DIES	434 Current Model Year Tech (Capstor	3	
DIES	450 Diagnosis of Power Shifts & HD Au	4	
TSCI	304 Fuels/Lubricants (Area C)	3	
PGEN	445 Control Applications	3	13
			120

color example

DIES	434 Current Model Year Tech (Capstone	3	CORE
METL	260 Repair & Maintenance Welding	3	OPTION
	Gen Ed Dist (Area A)		
	Gen Ed Dist (Area B)		
	Gen Ed Dist (Area C)		
	Gen Ed core courses		

PROGRAM/DEGREE REVISION FORM

NEW ____ DROPPED ____ MAJOR REVISION __X__ FOR INFORMATION ONLY

College College of Technical Sciences **Program Area** Diesel Technology BS **Date** 4-15-03

Submitter signature **Chair/Dean** signature **Date** 4-15-03

Please provide a brief explanation & rational for the 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				**LIFT TRUCK OPTION see back page for color explanation**		
	FRESHMAN YEAR				**FRESHMAN YEAR**		
	Courses to be taken Either Semester				**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		ENGL	111 Written Communication I	3	
SPCH	141 Fundamentals of Speech	3		SPCH	141 Fundamentals of Speech	3	9
	Courses to be taken Fall Semester				**Courses to be taken Fall 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		DIES	115 Intro. to Diesel Fuel Systems	4	
ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4		ATDI	134 Auto/Diesel Electrical/Elctrnc Sys. I	4	
DIES	204 Intro. To Hydraulics & Pneumatics	2		DIES	204 Intro. To Hydraulics & Pneumatics	2	
DIES	214 Intro. To Hydraulics/ Pneum. lab	2		DIES	214 Intro. To Hydraulics/ Pneum. lab	2	12
	Courses to be taken Spring Semester				**Courses to be taken Spring Semester**		
DIES	104 Introduction to Diesel Engines	3		AUTO	128 Engines	4	
	AND			ATDI	264 AD Elect/Electricity Sys II	4	
DIES	114 Introduction to Diesel Engines Lab	3		IT	111 Intro to Technology	2	10
	OR						
DIES	115 Intro. to Diesel Fuel Systems	4					
ATDI	265 Heating & Air Conditioning	4					
	SOPHOMORE YEAR				**SOPHOMORE YEAR**		
	Courses to be taken Either Semester				**Courses to be taken Either Semester**		
MATH	110 Math for Liberal Arts	4		MATH	110 Math for Liberal Arts	4	
	OR				OR		
MATH	112 College Algebra	3		MATH	112 College Algebra	3	
CIS	110 intro to Computers	3		CIS	110 intro to Computers	3	
	Gen Ed Dist (Area A, B, or C)	3			Gen Ed Dist (Area A	3	
					Gen Ed Dist (Area B	3	
							12

	Courses to be taken Fall Semester			**Courses to be taken Fall Semester**		
ATDI	264 Auto/Diesel Electrical/Elctrnc Sys. I	4				
DIES	216 Heavy Duty Power Trains	4	DIES	216 Heavy Duty Power Trains	4	
DIES	262 Diesel Engine Diagnosis & Repair	2	DIES	262 Diesel Engine Diagnosis & Repair	2	
DIES	272 Diesel Engine Diagnosis & Repair I	4	DIES	272 Diesel Engine Diagnosis & Repair lat	4	10
	Courses to be taken Spring Semester			**Courses to be taken Spring Semester**		
ATDI	257 Automatics	4				
DIES	219 Heavy Duty Chassis	4	ATDI	265 Heating & Air Conditioning	4	
DIES	273 Diesel Shop Practices	4	DIES	373 Diesel Shop Practices	4	8
	JUNIOR YEAR			**JUNIOR YEAR**		
	Courses to be taken Either Semester			**Courses to be taken Either Semester**		
METL	155 Machining Processes	3				
	Gen Ed Dist (Area B)	3		Gen Ed Dist (Area A)	3	
	Gen Ed Dist (Area B)	3		Gen Ed Dist (Area B)	3	
ENGL	366 Tech. Writing/Editing (Area A)	3				
ENGL	112 Written Communicaiton II	3	ENGL	112 Written Communicaiton II	3	9
	Courses to be taken Fall Semester			**Courses to be taken Fall Semester**		
ATDI	384 Auto/Diesel Electronics Apps	4	ATDI	384 Auto/Diesel Electronics Apps	4	
METL	260 Repair & Maintenance Welding	3	ATDI	383 Alt. Auto Power Systems	3	
			MTHL	413 LPG Fuel Systems	4	11
	Courses to be taken Spring Semester			**Courses to be taken Spring Semester**		
DIES	314 Hydraulics & Pneumatics II	4	IT	308 Inustrial Electronics	4	
			TSCI	304 Fuels/Lubricants (Area C)	3	
			DIES	314 Hydraulics & Pneumatics II	4	11
	SENIOR YEAR			**SENIOR YEAR**		
	Courses to be taken Either Semester			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			**Courses to be taken Fall Semester**		
ATDI	400 Shop Procedures II	2	ATDI	400 Shop Procedures II	2	
DIES	420 Diesel Shop Mgmt.	2	MTHL	426 Elect Vehicle Motor Cntrl	4	
DIES	440 Advanced Fuel Systems	4	DIES	440 Advanced Fuel Systems	4	
				Gen Ed Dist (Area C)	3	13
	Courses to be taken Spring Semester			**Courses to be taken Spring Semester**		
DIES	434 Current Model Year Tech (Capstor	3	DIES	434 Current Model Year Tech (Capstone)	3	
DIES	450 Diagnosis of Power Shifts & HD Au	4	DIES	450 Diag of Power Shifts & HD Auto	4	
	Electives	6	MTHL	428 Lift Structure Maint. & Repair	4	
	OR			Elective	4	15
DIES	479 Cooperative Education	6				120

color example

DIES	434 Current Model Year Tech (Capstone)	3	CORE
METL	260 Repair & Maintenance Welding	3	OPTION
	Gen Ed Dist (Area A)		
	Gen Ed Dist (Area B)		
	Gen Ed Dist (Area C)		
	Gen Ed core courses		

prog rev dies lift truck option 4-15-03

PROGRAM/DEGREE REVISION FORM

NEW ____ DROPPED _____ MAJOR REVISION __X__ FOR INFORMATION ONLY

College College of Technical Sciences Program Area Diesel Technology BS **Date** 4-15-03

Submitter _____ signature **Chair/Dean** _____ signature **Date** 4-15-03

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

Revision of Diesel bachelor degree to include options

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.

				FIELD MAINTENANCE OPTION see back page for color explanation			
	FRESHMAN YEAR				**FRESHMAN YEAR**		
	Courses to be taken Either Semester						
METL	140	Intro. To Welding & Cutting	3				
ENGL	111	Written Communication I	3				
SPCH	141	Fundamentals of Speech	3				
	Courses to be taken Fall Semester				**Courses to be taken Fall Semester**		
DIES	104	Introduction to Diesel Engines	3	DIES	104	Introduction to Diesel Engines	3
		AND				**AND**	
DIES	114	Introduction to Diesel Engines Lab	3	DIES	114	Introduction to Diesel Engines Lab	3
		OR				**OR**	
DIES	115	Intro. to Diesel Fuel Systems	4	DIES	115	Intro. to Diesel Fuel Systems	4
ATDI	134	Auto/Diesel Electrical/Elctrnc Sys. I	4	ATDI	134	Auto/Diesel Electrical/Elctrnc Sys. I	4
DIES	204	Intro. To Hydraulics & Pneumatics	2	DIES	204	Intro. To Hydraulics & Pneumatics	2
DIES	214	Intro. To Hydraulics/ Pneum. lab	2	DIES	214	Intro. To Hydraulics/ Pneum. lab	2
				IT	140	Intro. To Welding & Cutting	3 17
	Courses to be taken Spring Semester				**Courses to be taken Spring Semester**		
DIES	104	Introduction to Diesel Engines	3	DIES	104	Introduction to Diesel Engines	3
		AND				**AND**	
DIES	114	Introduction to Diesel Engines Lab	3	DIES	114	Introduction to Diesel Engines Lab	3
		OR				**OR**	
DIES	115	Intro. to Diesel Fuel Systems	4	DIES	115	Intro. to Diesel Fuel Systems	4
ATDI	265	Heating & Air Conditioning	4	IT	111	Indt. Safety & Waste Mgmt	2
				IT	150	Shielded Metal Arc Welding	3
				ENGL	111	Written Communication I	3
				SPCH	141	Fundamentals of Speech	3 15
r	**SOPHOMORE YEAR**				**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	3				
		Gen Ed Dist (Area A, B, or C)	3				
	Courses to be taken Fall Semester				**Courses to be taken Fall Semester**		
ATDI	264	Auto/Diesel Electrical/Elctrnc Sys. I	4	ATDI	264	Auto/Diesel Electrical/Elctrnc Sys. I	4
DIES	216	Heavy Duty Power Trains	4	DIES	216	Heavy Duty Power Trains	4
DIES	262	Diesel Engine Diagnosis & Repair	2	DIES	262	Diesel Engine Diagnosis & Repair	2
DIES	272	Diesel Engine Diagnosis & Repair I	4	DIES	272	Diesel Engine Diagnosis & Repair I	4
				IT	154	Gas Arc Welding Processing	3 17

	Courses to be taken Spring Semester			
ATDI	257 Automatics	4		
DIES	219 Heavy Duty Chassis	4		
DIES	273 Diesel Shop Practices	4		
r	**JUNIOR YEAR**			
	Courses to be taken Either Semester			
METL	155 Machining Processes	3		
	Gen Ed Dist (Area B)	3		
	Gen Ed Dist (Area B)	3		
ENGL	366 Tech. Writing/Editing (Area A)	3		
ENGL	112 Written Communicaiton II	3		
	Courses to be taken Fall Semester			
ATDI	384 Auto/Diesel Electronics Apps	4		
METL	260 Repair & Maintenance Welding	3		
	Courses to be taken Spring Semester			
DIES	314 Hydraulics & Pneumatics II	4		
r	**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 Spring Semester			
DIES	434 Current Model Year Tech (Capstor	3		
DIES	450 Diagnosis of Power Shifts & HD AL	4		
	Electives	6		
	OR			
DIES	479 Cooperative Education	6		

	Courses to be taken Spring Semester			
MATH	110 Math for Liberal Arts	4		
CIS	110 intro to Computers	3		
	Gen Ed Dist (Area B)	3		
ATDI	265 Heating & Air Copnditioning	4		14
	JUNIOR YEAR			
	Courses to be taken Either Semester			
	Gen Ed Dist (Area C)	3		
	Gen Ed Dist (Area B)	3		
ENGL	366 Tech. Writing/Editing (Area A)	3		
ENGL	112 Written Communicaiton II	3		12
	Courses to be taken Fall Semester			
ATDI	384 Auto/Diesel Electronics Apps	4		
IT	360 Repair & Maintenance Welding	3		
IT	155 Machining Processes	3		10
	Courses to be taken Spring Semester			
DIES	314 Hydraulics & Pneumatics II	4		
IT	355 Weld Certification I	3		
DIES	373 Diesel Shop Practices	4		11
	SENIOR YEAR			
	Courses to be taken Either Semester			
TSCI	304 Fuels/Lubricants (Area C)	3		
	Gen Ed Dist (Area A)	3		6
	Courses to be taken Fall Semester			
ATDI	400 Shop Procedures II	2		
IT	356 Weld Certification II	3		
DIES	440 Advanced Fuel Systems	4		9
	Courses to be taken Spring Semester			
DIES	434 Current Model Year Tech (Capstor	3		
DIES	450 Diagnosis of Power Shifts & HD AL	4		
IT	357 Weld Certification III	2		9
				120

	Color Example		
DIES	434 Current Model Year Tech (Capstor	3	CORE
IT	360 Repair & Maintenance Welding	3	OPTION
	Gen Ed Dist (Area A)		
	Gen Ed Dist (Area B)		
	Gen Ed Dist (Area C)		
	Gen Ed core courses		

PROGRAM/DEGREE REVISION FORM

NEW ____ DROPPED ____ MAJOR REVISION __X__ FOR INFORMATION ONLY

College College of Technical Sciences **Program Area** Diesel Technology AAS **Date** 4-15-03

Submitter _____ (signature) **Chair/Dean** _____ (signature) **Date** 4·15·03

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

Changes made to Diesel Aas degree as a result of the Bachelor degree changes

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
ENGL	111	Written Communication I	3
SPCH	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	3
		OR	
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

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	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 Ia	4

Courses to be taken Spring Semester

ATDI	257	Automatics	4
DIES	219	Heavy Duty Chassis	4
DIES	273	Diesel Shop Practices	4

IT	111	Ind. Safety/Waste Mgmt.	2

66-68 64-66

COURSE REVISION FORM

NEW ___ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY __X_

College _College of Technical Sciences_ Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
Add AUTO 128 as prerequisite

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	DIES 262
Course Title:	Diesel Engine Diagnosis and Repair
Credits:	2 Credits

Required by: Diesel Technology B.S. Core
Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	2
Lecture/Lab:	
Contact hours lecture:	
Contact hours lab:	

Current Catalog Description (include all prerequisites):
This course will include engine assembly and engine start-up after assembly. The course will also coordinate set-up, testing, and diagnosis of engine problems using test instruments and engine dynamometer. To be taken concurrently with DIES 272. Prerequisites: DIES 104 and DIES 114.

Proposed or New Catalog Description (include all prerequisites):
This course will include engine assembly and engine start-up after assembly. The course will also coordinate set-up, testing, and diagnosis of engine problems using test instruments and engine dynamometer. To be taken concurrently with DIES 272. Prerequisites: DIES 104 and DIES 114 or AUTO 128

Course Outcome Objectives:

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

COURSE REVISION FORM

NEW ____ DROPPED __X__ MAJOR REVISION _____ FOR INFORMATION ONLY____

College _College of Technical Sciences Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are dropping this course because it no longer fits the goals of the diesel program.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	DIES 273
Course Title:	Diesel Shop Practices
Credits:	4 Credits

Required by: Diesel Technology B.S. & Associate
Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	2

Current Catalog Description (include all prerequisites): A course emphasizing actual shop operations: Long and short-term jobs covering all aspects of a vehicle. It also includes vehicle maintenance. Shop flat-rate procedures, work order and warranty claim procedures.

Prerequisites: DIES 262 AND DIES 272. Course fee: $17.00

Proposed or New Catalog Description (include all prerequisites):
Course Outcome Objectives:

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

COURSE REVISION FORM

NEW __x__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology_ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Diesel Broadfield Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	4-15-03
Course Prefix & No.:	DIES 373
Course Title:	Diesel Shop Applied Practices
Credits:	4 Credits

Required by: Diesel Technology B.S. Core
Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	4

Current Catalog Description (include all prerequisites):

Proposed or New Catalog Description (include all prerequisites): industry's
This course examines the theory, operation and diagnosis of the diesel industries systems & components as applied to equipment used in the industries; Including ed are electrical/electronic fuels, hydraulic, big-bore, mechanical/all types of on/off highway equipment. Course Fee: $20.00 systems for

Course Outcome Objectives:
Students enrolled examines the theory, operation and diagnostic characteristics, utilizing manufactures current specialized tools. The students will learn proper safety and analytical troubleshooting techniques.

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

COURSE REVISION FORM

NEW ___ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY __X_

College _College of Technical Sciences Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are dropping the prerequisite of ATDI 257 Automatics so students in minors or options can take the course and ATDI 257 Automatics is not any longer applicable as a prerequisite.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	DIES 450
Course Title:	Diagnosis of Power Shifts and Heavy Duty Automatics
Credits:	4 Credits

Required by: Diesel Technology B.S. Core
Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	2

Current Catalog Description (include all prerequisites):
This is a course in Heavy Duty Power Shifts and Automatic Transmissions, 6000 GVW and larger. This course consists of lab and lecture time covering the components, theory of operations; diagnosis; using proper instrumentation and manuals; and repair; with emphasis on troubleshooting and failure analysis. **Prerequisites: DIES 216; ATDI 257.** Course Fee: $15.00

Proposed or New Catalog Description (include all prerequisites):
This is a course in Heavy Duty Power Shifts and Automatic Transmissions, 6000 GVW and larger. This course consists of lab and lecture time covering the components, theory of operations, diagnosis, using proper instrumentation and manuals, and repair, with emphasis on troubleshooting and failure analysis. **Prerequisites: DIES 216.** Course Fee: $15.00

Course Outcome Objectives:

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

COURSE REVISION FORM

NEW ____ DROPPED ____ MAJOR REVISION __X__ FOR INFORMATION ONLY____

College College of Technical Sciences_ Program Area _Industrial Technology_ Date 4-15-03

Submitter _____ Chair/Dean _____ Date 4-15-03
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):
Change credits to 2 and course description (Old METL) 357

Please provide the following information:

Department:	College of Technical Sciences: Industrial Technology
Program Area:	Industrial Technology
Date:	April 2003
Course pref and no.:	IT 357
Course title:	Welding Certification Procedures III
Credits:	**2** (sem) **(was 3 credits)**
Required by:	
General Education:	D
Lecture:	
Lecture/Lab:	X
Contact Hrs. Lecture:	
Contact Hrs. Lab:	arr **4** hrs/wk

Current Catalog Course Description (include prerequisites):
Laboratory applications to be taken following IT 356. Prerequisite: IT 356.

Proposed Catalog Course Description (include prerequisites): This course is for
Laboratory applications to be taken following IT 356. **Prerequisite: IT 356. This course may be repeated up to three times for credit.** Lab fee $20.00

Course Objectives:
This course is a continuation of IT 356. The purpose of this course is to provide additional opportunities for students to successfully select and perform various performance certifications. Course fee $20.00

Objectives:
1. Selection and production of appropriate joint designs
2. Coupon preparation of various certification procedures
3. Identification of inspection parameters
4. Advancement in the extent of student performance qualification

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 357 to 2 credits course rev form 4-15-03

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Lift Truck Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	MTHL 413 4XX preferred
Course Title:	LPG Fuel Systems
Credits:	4 Credits

Required by: Diesel Technology B.S. - Lift Truck Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	4

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the theory, operation and diagnosis of Impco systems, Aisan systems, Open-Loop & Closed-Loop systems, and Dana Epic systems. This course will also examine Lock-off/ filters, Regulators and Converters, Carburetors and Fuel solenoids. System testing and troubleshooting is heavily stressed and emphasized in this course. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will learn the operation characteristics of LPG fuel systems. The students will learn proper safety and troubleshooting techniques in dealing with LPG systems.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Lift Truck Option of the Diesel Technology BS Degree.

Please provide the following information:

College: College of Technical Sciences
Program Area: Diesel Technology
Date: 3/31/03
Course Prefix & No.: MTHL 426 — preferred.
Course Title: Electrical Vehicle Motor Control
Credits: 4 Credits

Required by: Diesel Technology B.S. - Lift Truck Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:
Lecture/Lab: X
Contact hours lecture: 2
Contact hours lab: 4

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the theory, operation, and diagnosis of GE-SX and Curtis Motor control systems. This course will also examine PMC Controllers, MIB Controllers, SepEx & Series motors systems, and computer program usage of GE Sentry, Hyster & Dash programs for diagnosis and system adjustments. Specialized tool usage and proper safety techniques are incorporated throughout the course. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will learn the operation characteristics of GE-SX and Curtis Motor control systems. The students will learn proper safety, troubleshooting and adjusting techniques when dealing with GE-SX and Curtis Motor control systems

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology_ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Lift Truck Option of the Diesel Technology BS Degree.

Please provide the following information:

College: College of Technical Sciences
Program Area: Diesel Technology
Date: 3/31/03
Course Prefix & No.: MTHL 428 - preferred

Course Title: Lift Structure Maintenance & Repair
Credits: 4 Credits

Required by: Diesel Technology B.S. - Lift Truck Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:
Lecture/Lab: X
Contact hours lecture: 2
Contact hours lab: 4

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the theory, operation, and maintenance of the various types of masts booms, scissors, and attachments including sub-components such as load rollers and channels. This course also examines the inspection and adjustment of load chains and carriage hanger bushings. System testing and troubleshooting is heavily stressed and emphasized in this course. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will learn the maintenance operation characteristics of masts, rollers, channels, load chains, and carriage hanger bushings. The students will learn proper safety, troubleshooting and adjusting techniques.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology__ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Power Generation Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	PGEN 275 proposed
Course Title:	Gas Turbines I
Credits:	4 Credits

Required by: Diesel Technology B.S. - Power Generation Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	4

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the basic gas turbine operating cycle and construction features of Axial-flow turbines. Theory, operation, and troubleshooting of the gas-fuel systems, liquid-fuel systems and lubricating oil systems are examined. Maintenance procedures and intervals specific to gas turbines are covered throughout the course. In addition, fundamentals of gas turbine control and protection are covered. IGV's, Start-up, Speed, Load, and Shutdown modes are discussed. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will learn how gas turbines operate. Students will learn proper operation and troubleshooting techniques specific to gas turbine technology. Students will learn proper safety practices related to gas turbines. Students will understand how turbine control and protection systems integrate with the gas turbines to provide reliable, uninterrupted service.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology_ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Power Generation Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	PGEN 325 - proposed
Course Title:	Electrical Power Transmission
Credits:	3 Credits

Required by: Diesel Technology B.S. - Power Generation Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	2

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines power distribution methods, automatic transfer switches, fuse panels, power grid structures, and remote diagnostics and monitoring. Current federal and state regulation procedures are examined throughout the content of the course. Proper diagnostic and safety methods are included in lecture and laboratory exercises.
Lab Fee $20.00

Course Outcome Objectives:
Students enrolled in this course will understand the relationship between the power generation systems and stationary grid & power structures. Students will be able to safely diagnose and repair power generation units using the appropriate diagnostic equipment.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology__ Date _3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Power Generation Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	PGEN 335 - proposed
Course Title:	Data Logging and Instrumentation
Credits:	3 Credits

Required by: Diesel Technology B.S. - Power Generation Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	2

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the diagnostic methodology involved in current power generation units. Emphasis is placed on the safe use of specialized instrumentation and data acquisition equipment. The data will be utilized in order to provide maximum system efficiency and performance, while reducing unnecessary downtime. Proper diagnostic methods are included in lecture and laboratory exercises. **Lab Fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will understand the relationship between the power generation systems and instrumentation and data acquisition equipment. Students will be able to utilize sophisticated diagnostic equipment in order to maximize system productivity.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology_ Date _3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Power Generation Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	PGEN(445) – proposed
Course Title:	Control Applications
Credits:	3 Credits

Required by: Diesel Technology B.S. - Power Generation Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	2

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the theory, operation, and diagnostics included in power generation control equipment such as digital control systems, remote monitoring, diagnostic controls, and industrial instrumentation controls. System control strategies such as redundant backup and parallel switching will be emphasized throughout the course. Proper safety and diagnostic methods are included in lecture and laboratory exercises. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will understand the relationship between the power generation systems and control equipment. Students will understand the theory of control systems and their importance in power generation systems. Diagnostic and troubleshooting methodology will be utilized and incorporated into the overall power generation system.

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

COURSE REVISION FORM

NEW __X__ DROPPED ____ MAJOR REVISION _____ FOR INFORMATION ONLY ____

College _College of Technical Sciences_ Program Area _Diesel Technology_ Date 3/31/03_____

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

Please provide a brief explanation & rationale for the proposed revision(s):
We are creating a new course that will be used in the Power Generation Option of the Diesel Technology BS Degree.

Please provide the following information:

College:	College of Technical Sciences
Program Area:	Diesel Technology
Date:	3/31/03
Course Prefix & No.:	PGEN 455 – proposed
Course Title:	Power Generation
Credits:	4 Credits

Required by: Diesel Technology B.S. - Power Generation Option

Selective in: N/A
Elective in: N/A
General Education: D Distribution Area

Lecture:	
Lecture/Lab:	X
Contact hours lecture:	2
Contact hours lab:	4

Current Catalog Description (include all prerequisites):
N/A

Proposed or New Catalog Description (include all prerequisites):
This course examines the relationship between the prime mover and the power generation source. This course will cover theory and operation of both manual and automatic voltage controls as well as the effect of resistive, capacitive and inductive loads. Power generation sources will be interconnected and adjusted using oscilloscopes in order to share real and reactive power. Safety considerations, droop, paralleling and load sharing are discussed throughout the course. **Lab fee $20.00**

Course Outcome Objectives:
Students enrolled in this course will understand the relationship between the prime mover and power generation source. Students will be able to diagnose and repair power generation units using the appropriate diagnostic equipment.

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