PROCEDURAL SEQUENCE FOR ACADEMIC SENATE APPROVAL OF PROPOSALS

- 1. Submit all proposals to the Office of Academic Affairs.
- 2. The Senate President will log items and forward them to the appropriate Senate subcommittees.
- 3. The Senate subcommittee will send the proposal to the Senate.

TITLE: Automotive BS, AAS, Minor, and Certificate program revisions.

SUBCOMMITTEE: CAUTUALAM

PROPOSAL:

- 4. Senate proposals will be considered by the Full Faculty.
- 5. If approved, the proposal will then be forwarded to the Provost/Senior Vice Chancellor.

Proposals that require action to approve/disapprove/table or remand will be sent back to the Senate according to the monthly meeting schedule.

The automotive program is revising its BS Degree, AAS Degree, Minor, and Certificate. Because of the revision, the automotive program will drop ATDI 117 (3cr), ATDI 118 (3cr), ATDI 119 (3cr) & ATDI 120 (3cr), and replace them with AUTO 117 (4cr), AUTO 119 (4cr), & AUTO 220 (4cr), AUTO 357

	(4cr) will be dropped and replaced with AUTO 457 (4cr). AUTO 388 (3cr) will be dropped and replaced with ATDI 400 (2cr). ATDI 384 (3cr)/ATDI 385 (3cr) will be replaced with ATDI 384 (4cr). ATDI 385 (3cr) will be dropped. AUTO 383 (3cr) is a new class. AUTO 408 is being changed from a 3 credit class to a 2 credit class. AUTO 355 (3cr) is a new class and will be taught concurrently with AUTO 255 by the same instructor.
(Action Signatures: LOWE Doyum 2-2-01 Submitter Date College Chair/Dean Date
	Approve Disapprove Date
_	Committee Chair Academic Senate Approve Disapprove Date 2-27-01 Faculty Senate President
	Provost/Senior Vice Chancellor for Academic Affairs Revised: 115/99 Chancellor for Academic Affairs Approve Disapprove Date

NEW	DROPPED_	MAJOR REVISION X IN	FORMATION ONLY
Department COTS	Pros	gram Area Automotive BS	Date_1/29/01

Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attached appropriate Course Revision Forms.

	Current Program			Proposed Program	
ATDI 117	Chassis I	3	AUTO 115	Introduction to Automotive Service	1
ATDI 118	Chassis I Lab	3	AUTO 117	Automotive Manual Power Trains	4
ATDI 119	Chassis II	3	AUTO 119	Automotive Braking Systems	4
ATDI 120	Chassis II Lab	3	AUTO 128	Engines	4
ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4	AUTO 151	Diagnosis and Tune Up	3
ATDI 257	Automatics	4	AUTO 152	Diagnosis and Tune Up Lab	3
ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4	AUTO 220	Automotive Steering and Suspension	4
ATDI 265	Heating and Air Conditioning	4	AUTO 251	Computerized Engine Control System	3
ATDI 384	Auto/Diesel Electronics Application	3	AUTO 252	Computerized Engine Control Systems Lab	3
ATDI 385	Auto/Diesel Microprocessor Application Lab	3	AUTO 355	Automotive Service Operations	3
ATDI 387	Service Operations	3	AUTO 408	Current Trends in Mobility Technology	2
AUTO 128	Engines	4	AUTO 450	Dyn. Testing/Computer Sys. Data Analysis	4
AUTO 151	Diagnosis and Tune Up	3	AUTO 457	Advanced Power Trains	4
AUTO 152	Diagnosis and Tune Up Lab	3	AUTO 488	Automotive Practicum *	3
AUTO 251	Computerized Engine Control System	3	ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4
AUTO 252	Computerized Engine Control Systems Lab	3	ATDI 257	Automatics	4
AUTO 255	Applied Service Technology	4	ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4
AUTO 357	Advanced Automatics	4	ATDI 265	Heating and Air Conditioning	4
AUTO 388	Applied Service Operations	3	ATDI 383	Alternative Automotive Power Systems	3
Or		_	ATDI 384	Auto/Diesel Electronics Application	4
AUTO 479	Cooperative Education	3	ATDI 400	Shop Procedures *	2
AUTO 408	Current Trends in Mobility Technology	3		Selective List (14 Credits Required)*	
AUTO 450	Dyno Testing/Computer Sys. Data Analysis	4		At least one course must be upper division	_
AUTO 488	Automotive Practicum	3	AUTO 479	Cooperative Education	3
BODY 140	Panel Adjustments and Glass	2	BODY 140	Panel Adjustments and Glass	2
METL 125	Automotive Machine & Tool Technology	3	BODY 143	Refinishing	3
METL 140	Intro to Welding and Cutting	3	BODY 144	Refinishing Lab	3
TECH 100	Industrial Safety/Waste Management	2	METL 140	Intro. to Welding and Cutting	3
	Total 84 Credits		ACCT 261	Principles of Accounting I	3
			BUS 250	Business Statistics	3
			BUS 300	Management in Organizations	3
			TSS 222	Customer Service	3
			CIS 111	Integrated Business Applications	3
			ENGL 366	Technical Writing and Editing	3

^{*} Only required if no minor.

Total

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

Revised: 02/09/00

84 Credits

NEW DROPPED MAJOR REVISION X INFORMATION ONLY						
Departme	Department COTS Program Area Automotive AAS Date 1/29/01					
	Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attached appropriate Course Revision Forms.					
	Current Program			Proposed Program		
ATDI 117	Chassis I	3	AUTO 115	Introduction to Automotive Service	1	
ATDI 118	Chassis I Lab	3	AUTO 117	Automotive Manual Power Trains	4	
ATDI 119	Chassis II	3	AUTO 119	Automotive Braking Systems	4	
ATDI 120	Chassis II Lab	3	AUTO 128	Engines	4	
ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4	AUTO 151	Diagnosis and Tune Up	3	
ATDI 257	Automatics	4	AUTO 152	Diagnosis and Tune Up Lab	3	
ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4	AUTO 220	Automotive Steering and Suspension	4	
ATDI 265	Heating and Air Conditioning	4	AUTO 251	Computerized Engine Control System	3	
AUTO 128	Engines	4	AUTO 252	Computerized Engine Control System Lab	3	
AUTO 151	Diagnosis and Tune Up	3	AUTO 255	Applied Service Technology	3	
AUTO 152	Diagnosis and Tune Up Lab	3	ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4	
AUTO 251	Computerized Engine Control System	3	ATDI 257	Automatics	4	
AUTO 252	Computerized Engine Control Systems Lab	3	ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4	
AUTO 255	Applied Service Technology	4	ATDI 265	Heating and Air Conditioning	4	

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

2

50

BODY 140

Panel Adjustments and Glass

50

Total

Industrial Safety/Waster Management

Revised: 02/09/00

TECH 100

Total

NEW	DROPPED MAJOR REVISION X	INFORMATION ONLY
Department <u>COTS</u>	Program Area Automotive Minor	Date 1/29/01

Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attached appropriate Course Revision Forms.

Current Program

Proposed Program

	ourioner rogram			• • • • • • • • • • • • • • • • • • • •	
List A: Choose	14 Credits		List A: Choose	14 Credits	
ATDI 117	Chassis I	3	AUTO 115	Introduction to Automotive Service	1
ATDI 118	Chassis I Lab	3	AUTO 117	Automotive Manual Power Trains	4
ATDI 119	Chassis II	3	AUTO 119	Automotive Braking Systems	4
ATDI 120	Chassis II Lab	3	AUTO 128	Engines	4
ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4	AUTO 151	Diagnosis and Tune Up	3
AUTO 128	Engines	4	AUTO 152	Diagnosis and Tune Up Lab	3
AUTO 151	Diagnosis and Tune Up	3	AUTO 220	Automotive Steering and Suspension	4
AUTO 152	Diagnosis and Tune Up Lab	3	AUTO 251	Computerized Engine Control System	3
AUTO 251	Computerized Engine Control System	3	AUTO 252	Computerized Engine Control System Lab	3
AUTO 252	Computerized Engine Control Systems Lab	3	ATDI 134	Auto/Diesel Electrical/Electronic Systems I	4
METL 125	Automotive Machining and Tool Tech	3			_
List B: Choose	14 credits (10 credits @ 300-400 level)		List B: Choose	12 credits (9 credits @ 300-400 level)	
ATDI 257	Automatics	4	ATDI 257	Automatics	4
ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4	ATDI 264	Auto/Diesel Electrical/Electronics Systems II	4
ATDI 265	Heating and Air Conditioning	4	ATDI 265	Heating and Air Conditioning	4
ATDI 384	Auto/Diesel Electronics Application	3	ATDI 383	Alternative Automotive Power Systems	3
ATDI 385	Auto/Diesel Microprocessor Application Lab	3	ATDI 384	Auto/Diesel Electronics Application	4
ATDI 387	Service Operations	3	ATDI 400	Shop Procedures	2
AUTO 357	Advanced Automatics	4	ATDI 457	Advanced Power Trains	4
AUTO 388	Applied Service Operations	3			
AUTO 408	Current Trends in Mobility Tech	3			
TECH 100	Industrial Safety/Waste Management	2			

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

Revised: 02/09/00

Auto Minor - EE
TABLED SEE
FOR FURTHER SEE
REWISION
Curriculum 2/6/01

NEW.	DROPPED	MAJOR REVISION X	_ INFORMATION O	NLY
Department <u>CO</u>	TS Prog	gram Area <u>Automotive Cer</u>	rtificate	Date 1/29/01

Please provide in the space below a "before and after" picture of the program with the changes in the program noted. Attached appropriate Course Revision Forms.

	Current Program				Proposed Program		
ATDI 117	Chassis I		3	AUTO 115	Introduction to Automotive Serv	vice	1
ATDI 118	Chassis I Lab		3	AUTO 117	Automotive Manual Power Trai	ns	4
ATDI 119	Chassis II		3	AUTO 119	Automotive Braking Systems		4
ATDI 120	Chassis II Lab		3	AUTO 128	Engines		4
ATDI 134	Auto/Diesel Electrical/Electron	nic Systems I	4	AUTO 151	Diagnosis and Tune Up		3
AUTO 128	Engines	•	4	AUTO 152	Diagnosis and Tune Up Lab		3
AUTO 151	Diagnosis and Tune Up		3	ATDI 134	Auto/Diesel Electrical/Electronic	c System I	4
AUTO 152	Diagnosis and Tune Up Lab		3	BODY 140	Panel Adjustments and Glass		2
	Total	26 Credits			Selective List (One Class I	Required)	
				ENGL 111	Written Communication I		3
				SPCH 141	Fundamentals of Speech		3
				SPCH 142	Interpersonal Communication		3
					Total	28 Credits	

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

Revised: 02/09/00

Revised Certificate

Accepted by Curriculum

Committee to creptage

Certificate originally

certificate originally

distributed (next page)

	NEW	_ DROPPED MAJO	R REV	ISION X	INFORMATION (ONLY	
Denartme	ent <u>COTS</u>	Program Area	Autor	motive Cert	ificate	Date_ <u>1/29/01</u>	./
-						. /	
Please pro	ovide in the	e space below a "before	and af	fter" picture	of the program v	with the changes in	1
the progra	am noted.	Attached appropriate Co	ourse I	Revision Fo	rms.		
	Cur	ent Program			Proposed Pr	ogram /	
ATDI 117	Chassis I	\	3	AUTO 115	Introduction to Autor		1
ATDI 118	Chassis I Lal	, \	3	AUTO 117	Automotive Manual I	a ^g	4
ATDI 119	Chassis II		3	AUTO 119	Automotive Braking	Systems	4
ATDI 120	Chassis II La		3	AUTO 128	Engines		4
ATDI 134	Auto/Diesel I	Electrical/Electronic Systems I	4	AUTO 151	Diagnosis and Tune	Up	3
AUTO 128	Engines		4	AUTO 152	Diagnosis and Tune		3
AUTO 151	Diagnosis ar	nd Tune Up	3	ATDI 134		al/Electronic System I	4
AUTO 152	Diagnosis ar	nd Tune Up Lab	3	BODY 140	Panel Adjustments a		<u>2</u>
	Total	26 Credits			Total	25 Credits	
					•		
		\	\				
				more motoric	de enecial equip	ment and facilitie	e)
New inst	ructional re	esources needed (includ	ing ixp	rary materia	iis, special equip	mont, and raomitic	<i>5)</i> .
Please no	ote: approva	al does not indicate supp	port to	new facult	ry or additional re	esources.	
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Revised: 02/	/09/00	<i></i>					
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NEW_X_ DROPPED MAJOR REVISION INFORMATION ON	LY
Department COTS Program Area Automotive	Date 1/19/01
Prefix AUTO No. 115 Title Introduction to Automotive Service Credit	s_1_credit
Required by AUTO BS, AUTO AAS, AUTO Minor, AUTO Certificate	
Selective in	
Elective in	
General Education Area D	
Lecture 1 Lecture/Lab Contact hours lecture 1 Contact ho	urs lab
Current Catalog Description (include all prerequisites): N/A	

Proposed Catalog Description (include all prerequisites):

An introductory course designed to assist the novice automotive technician in adjusting to the demands of an automotive service facility. This course will expose the student to the flat rate method of shop pay as well as focus on many customer concerns. The student will experience the most effective method when dealing with customer service while demonstrating correct dealer etiquette.

Course Outcome Objectives:

Once completing this course the student will have the ability to properly communicate automotive terminology to customers and present a professional image of their employer.

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

Revised: 02/09/00

NEW	_ DROPPEDX	MAJOR REVISION	INFORMAT	ION ONLY
Department _	COTS	Program Area	AUTOMOTIVE	Date: <u>1/28/2001</u>
Prefix ATDI	No. <u>117</u> Title	Chassis I	C	redits 3
Required by	AUTO BS, AUTO A	AS, AUTO Minor, AU	JTO Certificate	
Selective in _			- 47	
Elective in _				
General Educ	cation <u>AREA D</u>			
Lecture 3	Lecture/Lab	Contact hours lec	ture <u>3</u>	Contact hours lab
study of the l train compon transaxles. M	basic theory and princip	les of gearing, service, pered include clutches, translate with ATDI 118 Lab	repair, and recondit ansmissions, differe	ake systems. Also includes a ioning of automotive power entials, rear ends, axles, and
Course Ou	tcome 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

NEW DROPPEDX MAJOR REVISION _	INFORMATION ONLY
Department COTS Program Area A	AUTOMOTIVE Date: 1/28/2001
Prefix ATDI No. 118 Title Chassis I Lab	Credits 3
Required by _AUTO BS, AUTO AAS, AUTO Minor, AU	TO Certificate
Selective in	
Elective in	· · · · · · · · · · · · · · · · · · ·
General Education _AREA D	was the same of th
Lecture Lecture/Lab3 Contact hours lecture	re Contact hours lab6
Current Catalog Description (include all prerequisites	s):
Application of brake and power train service procedures. Mus	st be taken concurrently with ATDI 117.
Proposed Catalog Description (include all prerequisite	es):
Course Outcome Objectives:	
New instructional resources needed (including: library materia	
note: approval does not indicate support for new faculty or add	ditional resources.

NEW_X DROPPED MAJOR REVISION INFORMATION ONLY
Department COTS Program Area Automotive Date 1-9-01
Prefix Auto No. 117 Title Automotive Manual Power Trains Credits 4
Required by AUTO BS, AUTO AAS, AUTO Minor, AUTO Certificate
Selective in N/A
Elective in N/A
General Education Area D
Lecture 2 Lecture/Lab 2 Contact hours lecture 2 Contact hours lab 4
Current Catalog Description (include all prerequisites): N/A
Proposed Catalog Description (include all prerequisites):
This course examines automotive manual power trains. Includes the construction, maintenance, diagnosis, and repair of manual transmissions and transaxles, transfer cases, rear axles, driveshafts, and clutches. Driveline angles and Noise, Vibration & Harshness (NVH) will be discussed. Lab application of service procedures is included. No prerequisites
Course Outcome Objectives:
Students will demonstrate the ability to: 1) Identify types of power train components and parts. 2) Diagnose transmissions and trans-axles, transfer cases, rear axles, driveshafts and clutches. 3) Service, maintain and repair power train components. 4) Diagnose noise vibration and harshness problems. Students will perform NATEF objectives related to the above areas.
New instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
NONE Revised: 02/09/00

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NEW	DROPPED	X	_ MAJOR REVISIO	N INFORM	IATION ONLY
Department _	COTS		Program Area _	AUTOMOTIVE	Date: 1/28/2001
Prefix <u>ATDI</u>	No. <u>119</u>	Title C	Chassis II	C ₁	redits 3
Required by	Automotive A.S.	Degree,	Automotive B.S. Do	egree	
Selective in _	1.00.000				
Elective in _					
General Educ	cation <u>AREA D</u>				
Lecture 3	Lecture/Lab		_ Contact hours le	cture <u>3</u>	Contact hours lab
automotive fi absorbers, he and visual red Must be take	ront-end alignment adlight aiming, M cognition of vehic n concurrently wi	nt. Align IcPhersocole frame oth ATDI	ment procedures, w n strut, rack and pir damage. Also incl	theel balancing, autoration steering, power sudes servicing drum,	components related to motive springs, shock steering, front wheel drive, disc, and anti-lock brakes.
Course Out	tcome Objectiv	es:			
				y materials, special of for new faculty or a	equipment, and facilities).

NEW DROPPEDX MAJOR REVISION INFORMATION ONLY
Department COTS Program Area AUTOMOTIVE Date: 1/28/2001
Prefix ATDI No. 120 Title Chassis II Lab Credits 3
Required by Automotive A.S. Degree, Automotive B.S. Degree
Selective in
Elective in
General Education AREA D
Lecture Lecture/Lab3 Contact hours lecture Contact hours lab6
Current Catalog Description (include all prerequisites):
Application of suspension, alignment, and brake service procedures. Must be taken concurrently with ATDI
119.
Proposed Catalog Description (include all prerequisites):
Course Outcome Objections
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.

NEW_X DROPPED MAJOR REVISION INFORMATION ONLY
Department COTS Program Area Automotive Date 1-9-01
Prefix Auto No. 119 Title Automotive Braking Systems Credits 4
Required by AUTO BS, AUTO AAS, AUTO Minor, AUTO Certificate
Selective in N/A
Elective in N/A
General Education Area D
Lecture 2 Lecture/Lab 2 Contact hours lecture 2 Contact hours lab 4
Current Catalog Description (include all prerequisites): N/A
Proposed Catalog Description (include all prerequisites):
This course examines automotive braking systems, Includes hydraulic and friction theory. The construction, maintenance, diagnosis, and repair of disc, drum and antilock braking systems are studied. Use of the off-the-car and on-the-car brake latherare included in lab. Lab application of service procedures is included. No prerequisites

Course Outcome Objectives:

Students will demonstrate the ability to:

- 1) Identify types of braking systems and components.
- 2) Diagnose disc, drum, hydraulic and antilock braking systems.
- 3) Service and repair disc, drum, hydraulic and antilock braking systems.
- 4) Operate both on and off the car brake lathes.
- 5) Use asbestos dust containment equipment.

Students will perform NATEF objectives related to the above areas.

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

New Brake Lathe

Revised: 02/09/00

NEW_X DROPPED MAJOR REVISION INFORMATION ONLY
Department COTS Program Area Automotive Date 1-9-01
Prefix Auto No. 220 Title Automotive Steering and Suspension Credits 4
Required by AUTO BS, AUTO AAS, AUTO Minor
Selective in N/A
Elective in N/A
General Education Area D
Lecture 2 Lecture/Lab 2 Contact hours lecture 2 Contact hours lab 4
Current Catalog Description (include all prerequisites): N/A

Proposed Catalog Description (include all prerequisites):

This course examines automotive suspension and steering systems. The theory of operation, construction, maintenance, diagnosis, and repair of steering and suspension systems is examined. Alignment procedures, wheel balancing, steering, suspension, headlight aiming, and structural damage diagnosis will be discussed. Lab application of service procedures is included.

No prerequisites

Course Outcome Objectives:

Students will demonstrate the ability to:

- 1) Identify types of steering and suspension components and parts.
- 2) Diagnose steering, suspension and wheel problems.
- 3) Service, maintain and repair steering and suspension components.
- 4) Diagnose structural damage to the suspension with four wheel alignment equipment.

Students will perform NATEF objectives related to the above areas.

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

New alignment racks Revised: 02/09/00

NEW	_ DROPPED _	M.	AJOR REVISION	x	INFORM	ATION ONLY
Department	COTS		Program Area	AUTOMO	TIVE	Date: 1/28/2001
Prefix AUTO	_ No. <u>255</u>	Title API	PLIED SERVICE	TECHNOI	LOGY C	redits 3
Required by AU	JTOMOTIVE A	AS DEGR	EE			
Selective in						
Elective in						
General Educati	ion <u>AREA D</u>					
Lecture <u>0</u>	Lecture/Lab _	3	Contact hours le	cture <u>0</u>		Contact hours lab 6
Current Cata	log Descriptio	n (include	e all prerequisit	tes):		
			components rel department ope			ssis, and power trains industry.
A practical cou on both front a regarding tune	irse dealing wind rear wheel -up, brakes, el	ith the remedrive dena drive dena ectrical, po	ted school vehic	tion of eng cles. Some hassis syst	live wor	automatic transmissions k may be performed erequisite: AUTO 117,
Course Outco Students will pe			elated to the abov	'e areas.		
			ling: library mate r new faculty or a			ent, and facilities). Please

NEW	DROPPED _	_x	MAJOR REVISION	INFORM	MATION ONLY
Department _	COTS		_ Program Area	AUTOMOTIVE	Date: <u>1/28/2001</u>
Prefix AUTO	No. <u>357</u>	Title <u>A</u>	Advanced Automatics	<u> </u>	Credits <u>4</u>
Required by_	Automotive B.S. I	Degree_			
Selective in _					
Elective in _					
General Educ	cation <u>AREA D</u>				
Lecture	_ Lecture/Lab	3	_ Contact hours lect	ure	Contact hours lab6
Theory and a transmissions ATDI 117 an	application of autor s, CVT (constant v ad ATDI 257.	matics.(variable t	ude all prerequisite Covers front wheel de transmissions), autom clude all prerequisi	rive, converter clut latic transmissions,	ches, computer controlled , transaxles. Prerequisite:
	tcome Objective		(including: library	matarials snacial	equipment and facilities).
			l (including: library of indicate support f		equipment, and facilities). additional resources

NEW_X DROPPED MAJOR REVISION INFORMATION ONLY
Department Automotive Program Area College of Technical Sciences Date 12/15/00
Prefix ATDI No. 383 Title Alternative Automotive Power Systems Credits 3
Required by Auto BS
Selective in N/A
Elective in N/A
General Education Area D
Lecture 2 Lecture/Lab1 Contact hours lecture 2 Contact hours lab2
Current Catalog Description (include all prerequisites):
N/A
Proposed Catalog Description (include all prerequisites):
This course examines a variety of alternative power sources used in the automotive transportation industry. Topics covered in the class are compression ignition engine systems, propane & CNG systems, Hybrid electric systems, and electric propulsion systems. Prerequisites: AUTO 128 or DIES 104/114, ATDI 134 and ATDI 264.
Course Outcome Objectives:
Students will become proficient in the operation, diagnosis and repair of compression ignition engine systems, propane & CNG systems, Hybrid electric systems, and electric propulsion systems.
New instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.
None
Revised: 02/09/00

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NEW DROPPED MAJOR REVISION X INFORMATION ON	ILY
Department <u>COTS</u> Program Area <u>Automotive</u>	_Date_ <u>1/29/01</u>
Prefix ATDI No. 384 Title Auto/Diesel Electrical/Electronic Systems IIICredi	ts.4
Required by Auto BS, Dies BS	
Selective in	
Elective in	
General Education Area D	
Lecture 2 Lecture/Lab2 Contact hours lecture 2 Contact hours	ours lab 4

Current Catalog Description (include all prerequisites):

An in-depth study of current microprocessor-based vehicle control systems, diagnostic systems, and development/testing systems. Topics include multiplexed communications, bi-directional scanners, data structures and PC-based service bay systems, and test cells. Must be taken concurrently with ATDI 385. Prerequisite: ATDI 264

Proposed Catalog Description (include all prerequisites):

This course provides an in-depth study of microprocessor-based vehicle control systems, diagnostic systems, and development/testing systems. Students will experience oral and written reporting on current applications. Topics include multiplexed communications, bi-directional scanners, data structures and PC-based service bay systems, and test cells.

Prerequisite: ATDI 134, ATDI 264

Course Outcome Objectives:

Once completing this course the student will have demonstrated that they have an understanding of current electronic systems, and have the ability to properly use and understand current electronic test equipment.

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

Revised: 02/09/00

NEW DROPPEDX MAJOR REVISION INFORMATION ONLY
Department COTS Program Area AUTOMOTIVE Date: 1/28/2001
Prefix ATDI No. 385 Title Auto/Diesel Microprocessor Applications Lab Credits 3
Required by Automotive B.S. Degree, Diesel B.S. Degree
Selective in
Elective in
General Education <u>AREA D</u>
Lecture Lecture/Lab3 Contact hours lecture Contact hours lab6
Current Catalog Description (include all prerequisites): A lab class designed to combine principles and systems studied in ATDI 384 with skills and procedures prescribed by industry. Students will examine diagnostic routines of such microprocessor based systems as ABS, inflatable restraints, digital instrumentation, active suspension, powertrain control, SBDS, and C.A.M.S. Must be taken concurrently with ATDI 384. Prerequisite: ATDI 264 Proposed Catalog Description (include all prerequisites):
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.

NEW	DROPPED X	MAJO	OR REVISION	INFORMA	TION ONLY
Department _	COTS		Program Area _	AUTOMOTIVE	Date: <u>1/28/2001</u>
Prefix <u>AUTO</u>	No. 388	_ Title API	PLIED SERVI	CE OPERATIONS	Credits 3
Required by	AUTOMOTIVE I	3.S.			
Selective in _					
Elective in _				:	
General Educ	cation <u>AREA D</u>		-		
Lecture 0	Lecture/Lab _	3	Contact hours	lecture 0	Contact hours lab _9
To gain expe scheduling, e concurrently	estimating, pay sca with ATDI 387.	nagement b ales, present	y figuring effic ing a training s	iency, productivity, ession, and quality	contacting customers, objective control. Must be taken
Proposed C	Catalog Descrip	tion (inclu	de all prereqi	iisites):	
Course Ou	tcome Objectiv	es:			
New instruct note: approv	tional resources nearl does not indica	eeded (inclu te support fo	iding: library m or new faculty (aterials, special equor additional resour	sipment, and facilities). Please ces.

NEW DROPPED MAJOR REVISION X INFORMATION ONLY
Department Automotive Program Area College of Technical Sciences Date 12/15/00
Prefix Auto No. 408 Title Current Trends in Mobility Technology Credits 2
Required by Auto BS
Selective in N/A
Elective in N/A
General Education Area D
Lecture 2 Lecture/Lab Contact hours lecture 2 Contact hours lab Contact hours lab
Current Catalog Description (include all prerequisites):
This course presents an examination of current model year design and trends in the mobility industries. Extensive undergraduate research and the latest techniques for presenting material will be employed.
Proposed Catalog Description (include all prerequisites):
This course presents an examination of current model year design and trends in the mobility industries. Extensive undergraduate research and the latest techniques for presenting material will be employed.
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.
None

Revised: 02/09/00

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NEW_X DROP	PED MAJOR REVISION INI	ORMATION ONLY
Department <u>COTS</u>	Program Area_Automotive	Date 12/15/00
Prefix Auto No. 457	Title Advanced Power Trains	Credits 4
Required by Auto BS		
Selective in N/A		
Elective in N/A		
General Education Area D		
Lecture_2Lecture/Lal	Contact hours lecture 2	Contact hours lab 4
Current Catalog Description (include all prorognisites).		

Current Catalog Description (include all prerequisites):

Theory and application of automatics. Covers front wheel drive, converter clutches, computer controlled transmissions, CVT (constant variable transmissions), automatic transmissions, transaxles.

Prerequisite: ATDI 117 and ATDI 257

Proposed Catalog Description (include all prerequisites):

This course examines advanced component operation and diagnosis in automotive powertrains. Topics covered in the class are automatic transmissions, automatic transaxles, all wheel drive systems, CVT (constant variable transmissions), powertrain electronic control systems and NVH (noise, vibration & harshness) diagnosis.

Prerequisite: AUTO 117 and ATDI 257

Course Outcome Objectives:

Students will become proficient in the operation, diagnosis and repair of automatic transmissions, automatic transaxles, all wheel drive systems, CVT transmissions, powertrain electronic control systems and NVH diagnosis.

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

None

Revised: 02/09/00