

Automotive Minors

Not open to ATM Majors

Fall 2010 – Summer II 2011

Student Name: _____

Student ID: _____

Advisor Name: _____

E639 Automotive Technology Management				E638 Automotive Engineering Technology					
Required: 12 Semester Hours			Sem.	Grade	Required: 21 Semester Hours			Sem.	Grade
Course	Hrs	Title			Course	Hrs	Title		
AET 432	3	Parts Distribution and MKTG	_____	_____	AET 132	3	Theory of I.C. Engines	_____	_____
AET 433	3	Service Facilities ORG & MGT	_____	_____	ECT 160	3	Electronic Fundamentals	_____	_____
ECT 437	3	Industrial Computer Sys MGT	_____	_____	AET 233	3	Engine Systems & Controls	_____	_____
AET 440	3	Fixed Operations MGT	_____	_____	MET 333	3	Power Systems	_____	_____
Required: 3 Semester Hours (Select one)			Sem.	Grade	AET 336	3	Engine Fuels and Lubricants	_____	_____
MGT 301	3	Survey of Management or	_____	_____	AET 435	3	Engine Thermodynamics	_____	_____
TMGT 492	3	Industrial Supervision	_____	_____	AET 436	3	Diesel Engines	_____	_____
<p>This 15 credit hour minor concentrates on the management within the automotive industry. As a result, students completing this minor will be familiar with common management practices unique to the automotive environment. While open to all majors, this minor is particularly well suited for many business related majors in the College of Business and all technology majors within the College of Technology. This minor is deliverable via distance.</p>					<p>This 21 credit hour minor concentrates on the technology within the automotive industry. As a result, students completing this minor will be well suited for technical oriented positions within the automotive industry. This minor is NOT distance deliverable.</p>				
Course Descriptions					Course Descriptions				
AET 432	Parts Distribution and MKTG				AET 132	Theory of Internal Combustion Engines			
	A study of the organization and structure of the automotive industry's parts, tools, equipment and accessory business. Traditional parts stores, mass merchandising, accessory specialists, warehouse distributors, and buying groups are investigated. Also included are marketing strategies and methods, distribution systems, sales techniques, and understanding of the various catalogs involved.					Theory and laboratory experiences utilizing contemporary engines.			
AET 433	Service Facilities ORG & MGT				ECT 160	Electronic Fundamentals			
	Facility utilization, work scheduling, record keeping, maintenance, and supervisory responsibilities associated with modern vehicle service.					Provides an in-depth study of electronic components and basic laws and theories of electronics. Content includes resistance, electromotive force, current, power, and other parameters that apply to D.C. Provide a study of electronic components and systems in relation to alternating current. Course includes reactances, A.C. generation, and introduction to power supplies and amplifiers.			
ECT 437	Industrial Computer Sys MGT				AET 233	Engine Systems & Controls			
	Evaluation of control computers in an industrial environment; the direct and indirect cost trade-off of implementing a hardwired vs. a programmed controller. The effect of management decisions on industrial computer applications. Economics of open and closed systems, software vs. hardware, in-house vs. contract maintenance, and multi-vendor vs. single vendor systems.					Theory and diagnosis of automotive engine control systems covering fuel delivery, ignition, and emissions. Includes use of electronic diagnostic equipment.			
AET 440	Fixed Operations MGT				MET 333	Power Systems			
	Management principles, personnel management, and financial operations management of automotive service facilities.					Investigation of power sources, power conversion techniques, and methods of moving, using, and storing power in industrial, domestic, mobile, and aerospace applications. Laboratory experiences will include comparison and integration of power and energy systems.			
MGT 301	Survey of Management or				AET 336	Engine Fuels and Lubricants			
	A survey of the management process, the basic principles and concepts of internal organization and management, designed for nonbusiness majors.					Application and analysis of automotive fuels and lubricants with emphasis on testing in accordance with industry standards and practices. Laboratory experiences include testing of fuels, oils, and greases. Alternative fuels and their potential environmental impacts will also be explored.			
TMGT 492	Industrial Supervision				AET 435	Engine Thermodynamics			
	The role of supervision functions in industry with emphasis upon principles and practices of human behavior and human relations within the industrial environment.					Advanced engine design and theory. Dynamometer testing, wear analysis and study of reconditioning processes are included in the course.			
					AET 436	Diesel Engines			
						This course is designed to provide information related to the ever-growing diesel engine and equipment field. Specific emphasis is placed on fundamental design, fuel injection systems, lubrication, cooling, starting, turbo-charging, and diesel engine applications.			