

2006-2007
BS: AUTOMOTIVE ENGINEERING TECHNOLOGY
MINNESOTA STATE UNIVERSITY, MANKATO

COURSE OFFERED

Required for Major (60 Credits):

				<i>F06</i>	<i>SP07</i>	<i>SS07</i>	<i>F07</i>	<i>SP08</i>
θ	AET	102 ¹	Introduction to Automotive Engineering Technology (1)	X	X		X	X
θ	EET	113	DC Circuits (3) Co: MATH 115 or concurrent	X	X		X	X
θ	MET	142 ³	Computer Aided Design (3)	X	X	X	X	X
θ	MET	144	Product Development & Design (3) Coreq: MET 142	X	X		X	X
θ	AET	160 ³	Automotive Technology & Systems (4) Coreq: MATH 112 or higher	X	X		X	X
θ	MET	177	Material Processing & Metallurgy I (4) Coreq: MET 142	X	X		X	X
θ	AET	261	Automotive Driveability & Diagnosis (4) Pre: AET 160; Coreq: MATH 115	X	X		X	X
θ	AET	262	Automotive Computers and Electronics (4) Pre: AET 261, EET 113; Coreq: COMS 171	X	X		X	X
θ	MET	322	Statics, Dynamics and Mechanics of Materials (5) Pre: PHYS 211, MATH 121	X	X		X	X
θ	AET	334	Fluid Power (3) Pre: MATH 121, PHYS 211	X	X		X	X
θ	MET	341 ³	Advanced Computer Aided Design (4) Pre: MET 142; Coreq: MET 322	X	X	X	X	X
θ	AET	364	Chassis Design & Emission/Performance Testing (4) Pre: AET 262	X	X		X	X
θ	AET	366	Automotive Thermodynamics & Engine Design (3) Pre: AET 261; Coreq: MATH 121, CHEM 104	X	X		X	X
θ	AET	378	Composite Materials (3) Coreq: MET 177, MET 322	X	X		X	X
θ	AET	387 ¹	Junior Design Project (1) Pre: AET 102; Coreq: STAT 154		X			X
θ	MET	424 ¹	Industrial Safety (2)	X	X		X	X
θ	AET	465 ^{2,3}	Automotive Laboratory Experience (2) Pre: AET 364	X	X		X	X
θ	AET	468	Automotive Research Methods & Design of Experiments (4) Pre: AET 364, AET 366	X	X		X	X
θ	AET	488 ³	Senior Design Project I (1) Pre: AET 387; Coreq: STAT 154	X			X	
θ	AET	489 ³	Senior Design Project II (2) Pre: AET 468, AET 488; Coreq: ENG 271		X			X

¹Meets for only part of the semester

²Students **MUST** sign up with B. Jones one year before they want to take

³Students **MUST** receive special permission before registering

Required for Major (Communications courses, 11 Credits):

θ	ENG	101**	Composition I (4)	X	X	X	X	X
θ	ENG	271	Technical Communications (4) Pre: ENG 101	X	X	X	X	X
θ	SPEE	100**	Fundamentals of Speech (3) or SPEE 102** Public Speaking (3)	X	X	X	X	X

Required for Major (Basic Science and Mathematics, 26 Credits):

θ	MATH	115**	Precalculus (4) (or MATH 112 & 113)	X	X	X	X	X
θ	MATH	121**	Calculus I (4) Grade of C or better in MATH 115, or in both MATH 112 & 113	X	X	X	X	X
θ	MATH	127	Calculus II (2) Pre: MATH 121 with C or better or consent	X	X	X	X	X
θ	STAT	154**	Elementary Statistics (3) 3 years of H.S. algebra or MATH 098	X	X	X	X	X
θ	PHYS	211**	Principles of Physics I (4) Either MATH 112 & 113 or MATH 115; H.S. physics or PHYS 101 or con	X	X	X	X	X
θ	PHYS	212	Principles of Physics II (4) Pre: PHYS 211	X	X	X	X	X
θ	CHEM	104**	Introduction to Chemistry (3)	X	X	X	X	X
θ	COMS	171	Introduction to C++ Programming (2)	X	X		X	X

**These 25 credits will also count in General Education.

- All courses in the AET Major, and the required Communications, Basic Science and Mathematics courses must be completed with a grade of "C" or better.
- Pre-requisites and Co-requisites must be followed unless written permission is obtained from the AMET Department.
- Students must have a minimum of 40 credits from 300-400 level courses. We suggest 6 more credits of AET Individual Study, Internship or MET online courses in addition to major courses listed above.

See pre-requisite flow sheets and up-dated semester offering schedule available at the AMET Office, TR E-205, (507) 389-6383.