

## Typical Automotive Engineering Technology Program of Study

### Freshman (Fall)

AET 102	Intro to Auto Eng Tech	(1)
AET 160	Auto Technology & Systems	(4)
MATH 115	Precalculus**	(4)
ENG 101	English Composition**	(4)
GEN ED	General Education *	(3)
		<b>16</b>

### Freshman (Spring)

AET 261	Auto Drivability & Diagnosis	(4)
MET 142	Computer Aided Design	(3)
MATH 121	Calculus I	(4)
EET 113	DC Circuits	(3)
SPEE 100	Fund. Speech Comm** or (SPEE 102)**	(3)
		<b>17</b>

### Sophomore (Fall)

AET 262	Auto Computer & Electronics	(4)
PHYS 211	Principles of Physics I**	(4)
MATH 127	Calculus II **	(2)
CS 171	Intro to C++ Programming	(2)
MET 177	Mat Processing & Metallurgy	(4)
		<b>16</b>

### Sophomore (Spring)

MET 144	Product Development and Design	(3)
Chem 104	Intro to Chemistry**	(3)
PHYS 212	Principles of Physics II	(4)
AET 364	Chassis Design & Performance	(4)
GEN ED	General Education*	(3)
		<b>17</b>

### Junior (Fall)

AET 366	Auto Thermo Dynamics	(3)
MET 322	Statics, Dynamics & Strength	(5)
ENG 271	Technical Communication	(4)
STAT 154	Elementary Statistics	(3)
GEN ED	General Education*	(1)
		<b>17</b>

### Junior (Spring)

AET 468	Auto Research Methods & DOE	(4)
AET 387	Junior Design Project	(1)
AET 334	Fluid Power	(3)
MET 341	Advanced CAD	(4)
GEN ED	General Education *	(4)
		<b>16</b>

### Senior (Fall)

AET 488	Senior Design I	(1)
AET 378	Composite Materials	(3)
300/400	AET/MET Elective	(3)
100/400	Elective***	(4)
GEN ED	General Education*	(4)
		<b>15</b>

### Senior (Spring)

AET 489	Senior Design II	(2)
AET 465	Automotive Lab	(2)
MET 424	Industrial Safety	(2)
300/400	AET/MET Elective***	(3)
100-400	Elective***	(2)
GEN ED	General Education*	(3)
		<b>14</b>

Credits from AET Core Courses	60
Credits required for AET Science, Math, Communications	37 (**25 credits apply to GEN ED)
* = 19 GEN ED Credits for 44 required GEN ED (25 +19)	19
*** = 12 Free Elective Credits	<u>11</u>
<b>Credits Required for AET BS Graduation</b>	<b>128</b>

### NOTES:

- Math and Physics readiness may change above plan. MATH 098, MATH 112, MATH 113 and/or PHYS 101 may be required based on test scores and/or high school preparation.
- This is only an example of one way to organize GEN ED and ELECTIVE course choices.
- See your Bulletin Year and Advisor for current requirements
- See AMET Department for major course scheduling plans.
- Summer Course offerings may accelerate progress.
- All AET Major, and required Communications, Basic Science, and Mathematics course must be completed with a grade of "C" or better for program.

### Preparation

**High School:** We recommended high school precalculus, physics, and chemistry course work.

**Transfer Students:** If you are planning to transfer to Minnesota State Mankato, stay in contact with the College of Science, Engineering, and Technology (CSET) Advising Staff, or the AMET Department to develop a plan.