

# Automotive Systems Technology

## Associate in Applied Science Degree A60160

### (Revised 2008\*01) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
<b>I. General Education Courses: 15 Hours</b>				
A. English: 6 Hours				
ENG 111 Expository Writing	3	0	0	3
ENG 112 Argument-Based Research	3	0	0	3
or				
ENG 114 Prof Research & Reporting	3	0	0	3
B. Social/Behavioral Sciences: 3 Hours				
<i>Selected from the list of social/behavioral sciences electives for the Associate in Applied Science degree appearing in the current catalog.</i>				
C. Humanities/Fine Arts: 3 Hours				
<i>Selected from the list of humanities/fine arts electives for the Associate in Applied Science degree appearing in the current catalog.</i>				
D. Math/Natural Sciences: Select 3 Hours from the following				
MAT 121 Algebra/Trigonometry I		2	2	0
3				
MAT 161 College Algebra	3	0	0	3
<b>II. Major Courses: 50 Hours</b>				
A. Core: 18 Hours				
AUT 141 Suspension & Steering Systems		2	3	0
3				
AUT 151 Brake Systems		2	3	0
3				
AUT 161 Basic Auto Electricity Class	4	3	0	5
AUT 181 Engine Performance-1	2	3	0	3
AUT 183 Engine Performance-2		2	6	0
4				
B. Other Major Courses: 32 Hours				
1. Required Courses: 24 Hours				
AUT 116 Engine Repair		2	3	0
3				
AUT 116A Engine Repair Lab	0	3	0	1
AUT 141A Suspension & Steering Lab	0	3	0	1
AUT 151A Brake Systems Lab	0	3	0	1
AUT 163 Adv Auto Electricity	2	3	0	3
AUT 171 Auto Climate Control	2	4	0	4
AUT 221 Auto Transm/Transaxles		2	3	0
3				
AUT 221A Auto Transm/Transax Lab	0	3	0	1
AUT 231 Man Trans/Axles/Drtrains	2	3	0	3
AUT 231A Man Trans/Ax/Drtrains Lab	0	3	0	1
AUT 283 Advanced Automotive Electronics	2	2	0	3
2. 4 Hours selected from the following:				
AUT 113 Automotive Servicing 1		0	6	0
2				
And				
AUT 213 Automotive Servicing 2		1	3	0
2				
or				
COE 112 Co-op Work Experience I	0	0	20	2

And					
COE 122 Co-op Work Experience II	0	0	20	2	

## Automotive Systems Technology A60160 (Continued)

Title	Hours Class	Lab	Work Exp.	Credits
3. 4 Hours selected from the following:				
AUT 110 Intro to Automotive Technology 3		2	2	0
AUT 212 Auto Shop Management 3		3	0	0
AUT 281 Advanced Engine Performance 3		2	2	0
CIS 110 Introduction to Computers	2	2	0	3
CIS 111 Basic PC Literacy	1	2	0	2
COE 111-112 Co-op Work Experience I	0	0	10-20	1-2
COE 121-122 Co-op Work Experience II 1-2		0	0	10-20
COE 131-132 Co-op Work Experience III 1-2		0	0	10-20
COE 211 Co-op Work Experience IV	0	0	10	1
PHY 131 Physics-Mechanics	3	2	0	4
<b>III. Other Required Courses: 1 Hour</b>				
ACA 111 College Student Success 1		1	0	0
or				
ACA 115 Success & Study Skills 1		0	2	0
<b>Total Credits 66</b>				

# Automotive Systems Technology

## Diploma D60160D

### (Revised 2008\*01) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
<b>I. General Education Courses: 6 Hours</b>				
A. English: 3 Hours				
ENG 111 Expository Writing	3	0	0	3
B. Social/Behavioral Sciences: 3 Hours				
<i>Selected from the list of social/behavioral sciences electives for the Associate in Applied Science degree appearing in the current catalog.</i>				
<b>or</b>				
C. Humanities/Fine Arts: 3 Hours				
<i>Selected from the list of humanities/fine arts electives for the Associate in Applied Science degree appearing in the current catalog.</i>				
<b>or</b>				
D. Math/Natural Sciences: Select 3 Hours from the following				
MAT 121 Algebra/Trigonometry I		2	2	0
3				
MAT 161 College Algebra	3	0	0	3
<b>AND</b>				
<b><i>Students are required to demonstrate competency in MAT 070 prior to receiving a diploma.</i></b>				
<b>II. Major Courses: 38 Hours</b>				
A. Core: 18 Hours				
AUT 141 Suspension & Steering Systems	2	3	0	3
AUT 151 Brake Systems	2	3	0	3
AUT 161 Basic Auto Electricity	4	3	0	5
AUT 181 Engine Performance-1	2	3	0	3
AUT 183 Engine Performance-2		2	6	0
4				
B. Other Major Courses: 20 Hours				
1. Required Courses 18 Hours				
AUT 116 Engine Repair	2	3	0	3
AUT 116A Engine Repair Lab	0	3	0	1
AUT 141A Suspension and Steering Lab	0	3	0	1
AUT 151A Brake Systems Lab	0	3	0	1
AUT 171 Auto Climate Control	2	4	0	4
AUT 221 Auto Transm/Transaxles		2	3	0
3				
AUT 221A Auto Transm/Transax Lab	0	3	0	1
AUT 231 Man Trans/Axles/Drtrains	2	3	0	3
AUT 231A Man Trans/Ax/Drtrains Lab	0	3	0	1
2. 2 Hours selected from the following:				
AUT 113 Automotive Servicing 1	0	6	0	2
AUT 213 Automotive Servicing 2	1	3	0	2
COE 112 Co-op Work Experience I	0	0	20	2
COE 122 Co-op Work Experience II	0	0	20	2
<b>III. Other Required Courses: 1 Hour</b>				
ACA 111 College Student Success		1	0	0
1				
<b>or</b>				
ACA 115 Success & Study Skills		0	2	0
1				