Automotive Technology

Our programs in Automotive Technology are certified by NATEF (National Automotive Technicians Education Foundation) and offer comprehensive coursework in the fundamentals of all mechanical, fuel, and electronic systems found on modern vehicles including gasoline, diesels, and hybrids. Emphasis is placed on hands-on learning in the laboratory and through cooperative education experiences, giving the opportunity to earn money, university credit, and on-the-job training as part of your education.

Mission Statement for Automotive Technology, BS

The mission of the BS Automotive Degree is to prepare students for successful entry into the automotive industry that require and reward higher level thinking and skill sets. As such, the mission is to equip graduating students to begin a successful career within the automotive industry in corporate, management, ownership and/or technical positions.

Learning Outcomes for Automotive Technology, BS

- Demonstrate the effectiveness of incorporating computer based technical training.

- Demonstrate technical proficiency by completion of for MLR (Maintenance and Light Repair) training.

- Demonstrate technical presentation and writing skill. Students will demonstrate their technical presentation and writing skills through multiple presentations. These technical presentations will utilize multiple teaching methodologies.

- Demonstrate the application of technical skills by enrolling and arranging a cooperative education experience with the career center and an automotive industry employer.

Mission Statement for Automotive Technology, AAS

To prepare students for successful entry into the automotive industry that require and reward higher level thinking and skill sets. As such, the mission is to equip graduating students to begin a successful career within the automotive industry and technical positions.

Learning Outcomes for Automotive Technology, AAS

- Demonstrate the effectiveness of incorporating computer based technical training.

- Demonstrate technical proficiency by completion of Form MLR (Maintenance Light Repair) training.

- Demonstrate the application of technical skills by enrolling and arranging a cooperative education experience with the career center and automotive industry employer.

Learning Outcomes for Automotive Technology, Minor

- Demonstrate the effectiveness of incorporating computer based technical training.

- Demonstrate technical presentation and writing skill. Students will demonstrate their technical presentation and writing skills through multiple presentations. These technical presentations will utilize multiple teaching methodologies.

Bachelor of Science Automotive Technology

Learning outcomes: The successful completion of assigned e-training on NAPAAutoTech.com (http://NAPAAutoTech.com) and DATO HVAC.

Code	Title	Credits
General Education Core (https://catalognow.msun.edu/general-education-core/general-education-core/)		33
Required Courses		
ATDI 134	Electrical/Electronic Sys I	6
ATDI 257	Automatics	4
ATDI 262	Automatics Remove and Repair	1
ATDI 264	Electrical/Electronic Sys II	6
ATDI 265	Heating and Air Conditioning	4
ATDI 383	Alt Auto Power Systems	4
ATDI 384	AT/DI Elctrcl/Elctrn Sys III	4
ATDI 400	Shop Procedures	3
AST 106	Auto Manual Drive Train/Axles	5
AST 114	Automotive Brakes	5

AST 220	Auto Steering and Suspension	5
AST 160	Automotive Engine Repair	5
AST 164	Auto Diagnosis & Tune Up	6
AST 266	Engine Performance	6
AST 408	Current Trends Mobility Tech	2
AST 450	Advanced Engine Performance	4
AST 457	Advanced Power Trains	4
AST 495	Automotive Practicum	3
AST 498	Cooperative Education	3
Electives or Minor		7
Total minimum credits required for degree		**120**

NOTE: Students must take a total of 11 credits of upper division coursework from the electives or general education core.

Associate of Applied Science

Automotive Technology

Learning outcomes: The successful completion of assigned ASE testing available on NAPAAutoTech.com (http://NAPAAutoTech.com)

Code	Title	Credits
Required General Education Courses		
WRIT 122	Business Writing	3
or WRIT 101	College Writing I	
M 105	Contemporary Mathematics	3
or M 121	College Algebra	
or STAT 216	Introduction to Statistics	
COMX 111	Intro to Public Speaking	3
or COMX 115	Intro to Interpersonal Communc	
Required Courses		
ATDI 134	Electrical/Electronic Sys I	6
ATDI 257	Automatics	4
ATDI 262	Automatics Remove and Repair	1
ATDI 264	Electrical/Electronic Sys II	6
ATDI 265	Heating and Air Conditioning	4
AST 106	Auto Manual Drive Train/Axles	5
AST 107	Auto Man Drive Train/Axles Lab	0
AST 114	Automotive Brakes	5
AST 115	Automotive Brakes Lab	0
AST 220	Auto Steering and Suspension	5
AST 221	Auto Steering & Suspension Lab	0
AST 160	Automotive Engine Repair	5
AST 161	Automotive Engine Repair Lab	0
AST 164	Auto Diagnosis & Tune Up	6
AST 165	Auto Diagnostics & Tune Up Lab	0
AST 266	Engine Performance	6
AST 298	Automotive Internship	3
Advisor Approved Elective		3
Total minimum credits required for degree		**68**

TOYOTA T-TEN PROGRAM Students enrolled in the T-Ten Program will complete the requirements listed above for the associate of applied science degree. In addition, sixteen weeks or 640 hours of cooperative education experience in a Toyota dealership is required. Further information is available upon request—please see your advisor.

Fast Track Automotive Technology

Code	Title	Credits
Required Courses		
ATDI 134	Electrical/Electronic Sys I	6
ATDI 257	Automatics	4
ATDI 262	Automatics Remove and Repair	1
ATDI 264	Electrical/Electronic Sys II	6
ATDI 265	Heating and Air Conditioning	4
AST 106	Auto Manual Drive Train/Axles	5
AST 107	Auto Man Drive Train/Axles Lab	0
AST 114	Automotive Brakes	5
AST 115	Automotive Brakes Lab	0
AST 220	Auto Steering and Suspension	5
AST 221	Auto Steering & Suspension Lab	0
AST 160	Automotive Engine Repair	5
AST 161	Automotive Engine Repair Lab	0
AST 164	Auto Diagnosis & Tune Up	6
AST 165	Auto Diagnostics & Tune Up Lab	0
AST 266	Engine Performance	6
AST 298	Automotive Internship	9
Total minimum credits required for degree		**62**

Minor

Automotive Technology

Code	Title	Credits
Required Courses		
ATDI 134	Electrical/Electronic Sys I	6
ATDI 264	Electrical/Electronic Sys II	6
ATDI 383	Alt Auto Power Systems	4
ATDI 384	AT/DI Elctrcl/Elctrn Sys III	4
ATDI 400	Shop Procedures	3
AST 164	Auto Diagnosis & Tune Up	6
Total minimum credits required for minor		**29**