

PROGRAMS OF STUDY

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Transportation Distribution and Logistics

PROGRAMS OF STUDY

TRANSPORTATION DISTRIBUTION AND LOGISTICS

AUTOMOTIVE (TECHNOLOGY) 125

Associate in Applied Science (A.A.S) 66 Credit Hours (CH)

The Automotive A.A.S. degree provides the necessary foundation and practical experience to pursue entry-level positions that meet the changing demands of the automotive industry. Entry-level positions may be found in automotive dealerships, automotive franchises, independent service repair shops, auto part stores, or through self-employment. Students will learn the technical skills essential to employment in the field of maintenance technology, auto body care, chassis, diesel, and power train, leading to employment in service, maintenance, and areas of technological specialty such as detailing, auto body paint and refinishing, in addition to management occupations or self-employment. Students will also be able to consider Industrial Engineering Technology transfer of credits from the program core courses to state universities after consultation with an Admissions representative at the four-year institution to which they will transfer.

General Education 18 CH

Students should meet with a college Academic Advisor for selection of specific course requirements for the general education portion of the A.A.S. degree.

See page 51 for A.A.S. general education degree requirements.

Required Program Core 38 CH

Automotive Technology (105)	
101 Introduction to Automotive Technology	4
103 Engine Concepts	4
104 Electrical Systems & Power Accessories	4
109 Automotive Brakes	4
209 Steering & Suspension Systems	4
215 Automotive Temperature Control Systems	4
	24

Option 1 or Option 2: (minimum) 10

Option 1

Automotive Technology (105)	
105 Fuel Management I (4)	
205 Fuel Management II (4)	
206 Fuel Management III (4)	

OR

Option 2

Automotive Technology (105)	
106 Fuel Systems (5)	
210 Performance & Drivability (5)	

Option 1 or Option 2: 4

Option 1

Automotive Technology (105)	
211 Auto Service Management (4)	

OR

Option 2

Automotive Technology (105)	
212 Manual Drive Train & Axles (4)	

Electives (minimum) 10 CH

Automotive Technology (105)	
Work-Based Learning I (3-6)	
204 Electrical Systems II (4)	
207 Transmissions, Transaxle & Driveline (4)	
CIS (032)	
120 Introduction to Microcomputers (3)	

TOTAL MINIMUM PROGRAM CREDIT HOURS 66 CH

AUTOMOTIVE (TECHNOLOGY) 130

Advanced Certificate (A.C.) 46 Credit Hours (CH)

Required Program Core 46 CH

Automotive Technology (105)	
101 Introduction to Automotive Technology	4
103 Engine Concepts	4
104 Electrical Systems & Power Accessories	4
109 Automotive Brakes	4
204 Electrical Systems II	4
209 Steering & Suspension Systems	4
215 Automotive Temperature Control Systems	4

Basic Core 28

Option 1 or Option 2 18

Option 1

106 Fuel Systems (5)	
207 Transmission, Transaxle & Driveline (4)	
210 Performance & Driveability (5)	
212 Manual Drive Train & Axles (4)	

OR

Option 2

105 Fuel Management I (4)	
205 Fuel Management II (4)	
206 Fuel Management III (4)	
108 Work Based Learning I (6)	

MINIMUM PROGRAM CREDIT HOURS 46 CH

AUTOMOTIVE (TECHNOLOGY) 116

Basic Certificate (B.C.) 20 Credit Hours (CH)

Required Program Core 20 CH

Automotive Technology (105)	
101 Introduction to Automotive Technology	4
103 Engine Concepts	4
104 Electrical Systems & Power Accessories	4
109 Automotive Brakes	4
209 Steering & Suspension Systems	4

TOTAL PROGRAM MINIMUM CREDIT HOURS 20 CH

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TRANSPORTATION DISTRIBUTION AND LOGISTICS

AUTOMOTIVE BODY RECONSTRUCTION TECHNOLOGY 112

Basic Certificate (B.C.) 25 Credit Hours (CH)

Required Program Core	25 CH
<i>Automotive Technology (105)</i>	
101 Introduction to Automotive Technology	4
107 Automotive Body Welding	4
117 Auto Body Reconstruction I	3
211 Auto Service Management	4
217 Auto Reconstruction II	3
220 Collision Estimating	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	25 CH

AUTOMOTIVE BODY REPAINTING TECHNOLOGY 111

Basic Certificate (B.C.) 26 Credit Hours (CH)

Required Program Core	26 CH
<i>Automotive Technology (105)</i>	
101Introduction to Automotive Technology	4
118 Auto Body Repainting I	3
119 Auto Body Detailing	5
211 Auto Service Management	4
218 Auto Body Repainting II	3
220 Collision Estimating	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	26 CH

AUTOMOTIVE CHASSIS MAINTENANCE 134

Basic Certificate (B.C.) 19 Credit Hours (CH)

Required Program Core	19 CH
<i>Automotive Technology (105)</i>	
101 Introduction to Automotive Technology	4
104 Electrical Systems & Power Accessories	4
109 Automotive Brakes	4
209 Steering & Suspension Systems	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	19 CH

AUTOMOTIVE COLLISION TECHNOLOGY 133

Advanced Certificate (A.C.) 44 Credit Hours (CH)

Required Program Core	44 CH
<i>Automotive Technology (105)</i>	
101 Introduction to Automotive Technology	4
104 Electrical Systems & Power Accessories	4
107 Automotive Body Welding	4
109 Automotive Brakes	4
117 Auto Body Reconstruction I	3
118 Auto Body Repainting I	3
119 Automotive Body Detailing	5
209 Steering & Suspension Systems	4
217 Auto Reconstruction II	3
218 Auto Body Repainting II	3
220 Collision Estimating	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	44 CH

AUTOMOTIVE FUEL MANAGEMENT TECHNOLOGY 136

Basic Certificate (B.C.) 27 Credit Hours (CH)

Required Program Core	27 CH
<i>Automotive Technology (105)</i>	
101 Introduction to Automotive Technology	4
103 Engine Concepts	4
104 Electrical Systems & Power Accessories	4
105 Fuel Management I	4
205 Fuel Management II	4
206 Fuel Management III	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	27 CH

AUTOMOTIVE MAINTENANCE 128

Basic Certificate (B.C.) 27 Credit Hours (CH)

Required Program Core	27 CH
<i>Automotive Technology (105)</i>	
101 Introduction to Automotive Technology	4
104 Electrical Systems & Power Accessories	4
109 Automotive Brakes	4
209 Steering and Suspension Systems	4
211 Auto Service Management	4
215 Automotive Temperature Control Systems	4
<i>Cooperative Work Experience (008)</i>	
101Cooperative Education Exploration	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	27 CH

PROGRAMS OF STUDY

TRANSPORTATION DISTRIBUTION AND LOGISTICS

AUTOMOTIVE PARTS SPECIALIST 185 *Basic Certificate (B.C.) 21 Credit Hours (CH)*

Required Program Core	21 CH	
Automotive Technology (105)		
101 Introduction to Automotive Technology	4	
104 Electrical Systems & Power Accessories	4	
111 Automotive Parts Specialist I	6	
112 Automotive Parts Specialist II	4	
Cooperative Work Experience (008)		
101 Cooperative Education Exploration	3	
TOTAL PROGRAM MINIMUM CREDIT HOURS	21 CH	

Required Program Core **47 CH**

330TRNS	
150 Introduction to Transportation Administration	3
152 Introduction to Business Logistics	3
154 Traffic Management Customer Service	3
156 Warehousing & Distribution	3
158 Purchasing	3
200 Export/Import Management	3
202 Labor/Business Law/Legal Compliance	3
204 Global Logistics Management	3
206 E-commerce Technology	3
208 Supply Chain Optimization Information Systems	3
210 Inventory Control	3
212 Supervised Work-based Learning	5
CIS (032)	
120 Introduction to Microcomputers	3
123 Introduction to Spreadsheets	3
Psychology (0087)	
205 Applied Psychology	3
TOTAL PROGRAM MINIMUM CREDIT HOURS	63 CH

LOGISTICS TRANSPORTATION DISTRIBUTION 713 *Associate of Applied Science degree (A.A.S.)* *63 Credit Hours (CH)*

The field of Logistics encompasses a wide variety of career paths and employment opportunities. Career paths span across all aspects of the supply-chain spectrum from the supplier, to manufacturing, to distribution, and finally to the wholesaler/retailer. Occupations include warehouse management, equipment and material handling, inventory control, transportation supervisor, and distribution specialist. Logistics is increasingly recognized as a field that is vital to commerce and the economy. Logistics ensures that products are moved on time, in the proper condition, and for the right cost. This program targets entry-level employees with introductory classes in transportation and logistics. Articulation is in place with the Illinois Institute of Technology for those wishing to pursue a four-year degree.

General Education	16 CH	
English (035)		
101 Composition	3	
Humanities (041)		
201 General Course I Humanities <u>OR</u>	3	
202 General Course II Humanities		
Mathematics (045)		
118 General Education Math	4	
Social Science (088)		
101 General Course I <u>OR</u>	3	
102 General Course II Social Science		
Speech (095)		
101 Fundamentals of Speech Communication	3	

LOGISTICS/TRANSPORTATION/DISTRIBUTION 712 *Advanced Certificate (A.C.) 36 Credit Hours (CH)*

Required Program Core	36 CH	
English (035)		
101 Composition	3	
Mathematics (045)		
118 General Education Mathematics	4	
CIS (032)		
120 Introduction to Microcomputers	3	
330TRNS		
150 Introduction to Transportation Administration	3	
152 Introduction to Business Logistics	3	
154 Traffic Management Customer Service	3	
156 Warehousing & Distribution	3	
158 Purchasing	3	
202 Labor/Business Law/Legal Compliance	3	
210 Inventory Control	3	
212 Supervised Work-based Learning	5	
TOTAL PROGRAM MINIMUM CREDIT HOURS	36 CH	

PROGRAMS OF STUDY

TRANSPORTATION DISTRIBUTION AND LOGISTICS

PUBLIC PASSENGER VEHICLE TRAINING/TAXI 715

Basic Certificate (B.C.) 6 Credit Hours (CH)

The Public Passenger Vehicle Training/Taxi Basic Certificate is designed to prepare individuals to become public chauffeurs in the City of Chicago and to take the Public Chauffeur License examination issued by the Chicago Department of Business Affairs & Consumer Protection. This two week comprehensive training program covers Chicago Geography/Navigation, Departmental Rules and Regulations, Accessibility Training, and Professional Development.

Required Program Core	6 CH
330BSCM	
330 100 Public Passenger Vehicle Training/Taxi	6
TOTAL PROGRAM MINIMUM CREDIT HOURS	6 CH

SUPPLY CHAIN MANAGEMENT 385

Basic Certificate (B.C.) 16 Credit Hours (CH)

This program is designed for individuals interested in entry-level employment in the warehousing and distribution industry. Students will review the current rules, regulations and requirements to which all warehousing and distribution centers adhere. Upon completion of this program students will understand the responsibilities of supply chain, material handlers, and freight inventory.

Required Program Core	12 CH
Business (030)	
155 Working in the Warehousing Environment	1.5
156 Warehousing Workforce Skills	1.5
158 Warehousing & Distribution Process	2.5
159 Warehousing Technology Skills	2.0
162 Representative Warehousing Skills	2.5
164 Warehousing & Distribution Co-op	2.0
Mathematics (045)	
118 General Education Math	4.0
TOTAL PROGRAM MINIMUM CREDIT HOURS	16 CH