Automotive Service Management Technology (2236)

Associate in Science or Associate in Applied Science

Drive up your income as an expert auto and light truck technician. This two-year training program is hands-on and teaches you to locate problems and repair and service engines, fuel, emission, steering and suspension systems; and brakes, drive trains, and transmissions. Besides the basics, today's automotive technicians need to have advanced skills. After completion, you'll be capable and comfortable with high-tech electronic engine controls and electrical and computerized systems.

Dealerships, privately-owned garages and other automotive repair shops will be looking to hire you. Safe, efficient work practices and "people skills" are part of the excellent all-around instruction.

Internships

Every program contains an internship component so you can gain on-the-job experience while working toward a degree. The demand for educated technicians is so great, employers contact us daily for talented, qualified candidates.

Career Opportunities, Rapid Placement

The Automotive program has a better than 90% immediate placement record for graduates.

Annual Salaries

Graduates with internship experience enter the field at about $30,000 a year. Degreed technicians with experience and **ASE certification** begin at about $40,000.

Cost

Estimated cost of tuition is $4,517 (tuition rated for Florida residents, as of 7/07). Contact the program manager for additional costs (materials, textbooks, fees).

Need More Information? Contact:

Automotive and Diesel Technologies Department, 904.633.8334.

Curriculum

Course Number and Title		Credits
General Education Courses		
ENC 1101	English Composition I	3
	*Mathematics	3
	*Social and Behavioral Science	3
	*Humanities	3
	**Physical Science	3
	Credit Hours	**15**
Required Professional Courses		
AER 1007	Introduction to Automotive Technology	3
or **AER 1002**	Introduction to Automotive Technology: Module I	1

and	**AER 1003**	Introduction to Automotive Technology: Module II	1
and	**AER 1004**	Introduction to Automotive Technology: Module III	1

AER 1310		Electrical Systems I	4
or	**AER 1350**	Electrical/Electronics: Module I, Basic Electrical	1
and	**AER 1351**	Electrical/Electronics: Module II, Electronics Circuits	1
and	**AER 1352**	Electrical/Electronics: Module III, Electronic Application	1
and	**AER 1353**	Electrical/Electronics: Module IV, Battery, Starting and Charging	1

AER 1610		Air Conditioning and Heating	4
or	**AER 1612**	Heating and Air Conditioning: Module I, Theory and Operation	1
and	**AER 1613**	Heating and Air Conditioning: Module II, Diagnostics and Repair	1
and	**AER 1614**	Advanced Heating and Air Conditioning: Module I	1
and	**AER 1615**	Advanced Heating and Air Conditioning: Module II	1

AER 1410		Brake Systems	4
or	**AER 1421**	Brake: Module I, Introduction to Brakes, Hardware	1
and	**AER 1422**	Brake: Module II, Brake Controls	1
and	**AER 1423**	Brake: Module III, Drum and Disc Brakes	1
and	**AER 1424**	Brake: Module IV, Anti-Lock Brakes	1

AER 1450		Steering and Suspension	4
or	**AER 1455**	Steering and Suspension: Module I, Steering Systems	1
and	**AER 1456**	Steering and Suspension: Module II, Suspension Systems	1
and	**AER 1457**	Steering and Suspension: Module III, Alignment, Wheels and Tires	1
and	**AER 1458**	Steering and Suspension: Module IV, Electronic Steering Systems	1

AER 1231		Manual Transmissions and Transaxles	4
or	**AER 1236**	Manual Drive Train and Axle: Module I, Manual Drive Train, Clutch	1
and	**AER 1237**	Manual Drive Train and Axle: Module II, Manual Drive Train, Transmission	1
and	**AER 1238**	Manual Drive Train and Axle: Module III, Driveshaft and Drive Axle	1
and	**AER 1239**	Manual Drive Train and Axle: Module IV, All Wheel Drive/4 Wheel Drive	1

AER 1111		Engines	4
or	**AER 1104**	Engine Repair: Module I, Engine	

		Basics	1
and	**AER 1105**	Engine Repair: Module II, Cylinder Heads	1
and	**AER 1115**	Engine Repair: Module III, Engine Block Diagnosis and Repair	1
and	**AER 1116**	Engine Repair: Module IV, Engine Assembly	1

AER 2520 Engine Performance I 4

or	**AER 2504**	Engine Performance and Test: Module I, General Engine Performance Diagnostics and Repair	1
and	**AER 2505**	Engine Performance and Test: Module II, Ignition System Diagnostics and Repair	1
and	**AER 2513**	Engine Performance and Test: Module III, Fuel Systems Diagnostics and Repair	1
and	**AER 2514**	Engine Performance and Test: Module IV, Emission Diagnostics and Repair	1

AER 2522 Engine Performance II 4

or	**AER 2529**	Engine Performance and Test: Module V, Computerized Engine Control Diagnostics and Repair	1
and	**AER 2550**	Engine Performance and Test: Module VI, General Motors Performance Diagnostics	1
and	**AER 2551**	Engine Performance and Test: Module VII, Ford Performance Diagnostics	1
and	**AER 2552**	Engine Performance and Test: Module VIII, Daimler Chrysler Performance Diagnostics	1

AER 1253 Automatic Transmissions and Transaxles I 4

or	**AER 1290**	Automatic Transmissions and Transaxles: Module I, Automatic Transmission Basics	1
and	**AER 1291**	Automatic Transmissions and Transaxles: Module II, Principles of Operation	1
and	**AER 1292**	Automatic Transmissions and Transaxles: Module III, Transmission and Transaxle Torque Converter	1
and	**AER 1293**	Automatic Transmissions and Transaxles: Module IV, Transmission Fluids and Filters, Gaskets and Seals	1

AER 2251 Automatic Transmissions and Transaxles II 4

or	**AER 2294**	Automatic Transmissions and Transaxles: Module V, Transmission Electronic Control Systems	1
and	**AER 2295**	Automatic Transmissions and Transaxles: Module VI, Transmission Overhaul Manufacture Specific: GM	1
and	**AER 2296**	Automatic Transmissions and	

		Transaxles: Module VII, Transmission Overhaul Manufacture Specific: Ford	1
and	**AER 2297**	Automatic Transmissions and Transaxles: Module VIII, Transmission Overhaul Manufacture Specific: Chrysler	1
AER 2311		Electrical Systems II	4
or	**AER 2354**	Electrical/Electronics: Module V, Lighting Systems Diagnosis and Repair	1
and	**AER 2355**	Electrical/Electronics: Module VI, Accessories Diagnosis and Repair	1
and	**AER 2356**	Electrical/Electronics: Module VII, Ignition System Diagnosis and Repair	1
and	**AER 2357**	Electrical/Electronics: Module VIII, Air Bag System Diagnosis	1
AER 2523		Advanced Engine Performance	4
or	**AER 2553**	Engine Performance and Test: Module IX, Bosch Performance Diagnostics	1
and	**AER 2554**	Engine Performance and Test: Module X, Asian Performance Diagnostics	1
and	**AER 2555**	Engine Performance and Test: Module XI, Electronic Diesel Performance Diagnostics	1
and	**AER 2556**	Engine Performance and Test: Module XII, Lab Scope Diagnostics	1
AER 2880		First Year Automotive Internship	1
AER 2881		Second Year Automotive Internship	1
		Credit Hours	**53**
		Total Credit Hours	**68**

*Refer to A.S. degree **General Education Requirements**.
**PHY 1020C Physics for Liberal Arts recommended.

Note

You have two options in this program: the associate in science (A.S.) degree, which can prepare you for employment or transfer to a state university, and the associate in applied science (A.A.S.) degree, which is intended primarily for students who want immediate employment after graduation. If you choose the A.S. degree you must take **MAC 1105**, **MGF 1106** or a higher level mathematics. The A.A.S. degree requires **MAT 1033** or higher. Please see an advisor to determine the option that is best for you.

To request information, contact the Learner Support Center at **info@fccj.edu** or 904.646.2300.

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