

DEKALB TECHNICAL COLLEGE
Clarkston Campus

**MOTORCYCLE SERVICE TECHNOLOGY
FOUR-QUARTER DIPLOMA**

The Motorcycle Service Technology Program is a sequence of courses that prepares students for positions in the motorcycle repair industry. The program emphasizes a combination of mechanical theory and practical experience. The program includes classes in engines, chassis systems, electrical systems, fuel systems, and an internship experience.

<u>Course Number</u>	<u>Course</u>	<u>Class Hours</u>	<u>Lab Hours</u>	<u>Total Hours</u>	<u>Credit Hours</u>	<u>Prerequisites/Corequisites</u>
FIRST QUARTER						
MAT 101	Mathematics	50	0	50	5	*
MCT 100	Introduction to Motorcycle Technology	30	50	80	5	*, MCT 110
MCT 110	Motorcycle Safety Procedures	10	0	10	1	
MCT 112	Motorcycle Maintenance	<u>50</u>	<u>40</u>	<u>90</u>	<u>7</u>	MCT 100, MCT 110 (Co)
	TOTAL	140	90	230	18	
SECOND QUARTER						
MCT 101	Motorcycle Engines	50	60	110	7	MCT 100, MCT 110, MCT 112
MCT 104	Motorcycle Chassis and Suspension Systems	50	60	110	7	MCT 100, MCT 110, MCT 112
ENG 101	English	<u>50</u>	<u>0</u>	<u>50</u>	<u>5</u>	*, See catalog for pre-reqs
	TOTAL	150	120	270	19	
THIRD QUARTER						
MCT 102	Motorcycle Electrical Systems	60	30	90	7	MCT 100, MCT 110, MCT 112
MCT 103	Motorcycle Fuel Systems	60	30	90	7	MCT 100, MCT 110, MCT 112
EMP100	Interpersonal Relations and Professional Development	<u>30</u>	<u>0</u>	<u>30</u>	<u>3</u>	
	TOTAL	150	60	210	17	
FOURTH QUARTER						
SCT 100	Introduction to Microcomputers	30	0	30	3	
MCT 201	Troubleshooting	40	90	130	7	MCT 100,101,102,103,104, 110,
MCT 202	Motorcycle Repair Internship	<u>0</u>	<u>150</u>	<u>150</u>	<u>5</u>	Completion of all course work
	TOTAL	70	240	310	15	

*Approved admission level English, reading and/or mathematics competency required.

CIP CODE: 47.0611N2

MAJOR COD: MSN2

REQUIRED CREDIT HOURS: 69

10/07

The curriculum is subject to change to meet changing conditions. As set forth in its catalog, DeKalb Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

COURSE DESCRIPTIONS

MCT 100 - INTRODUCTION TO MOTORCYCLE TECHNOLOGY

(5)

Prerequisite: Program Admission

Corequisite: MCT 110

This course serves as an introduction to the program and the field of professional motorcycle service. Topics include: the operation, construction, design, testing, maintenance, and repair of motorcycle and ATV systems and components. Course includes lectures, text, videos, and lab experience.

MCT 101 - MOTORCYCLE ENGINES

(7)

Prerequisite: MCT 100

This course covers the construction, operation and repair of the internal combustion engines used in modern motorcycles. Topics include: two and four stroke theory and operation, power trains and final drive systems. Upon completion the student should be able to test, disassemble, measure and reassemble two and four stroke engines, transmissions and final drives.

MCT 102 - MOTORCYCLE ELECTRICAL SYSTEMS (7)

Prerequisite: MCT 100

This course covers the ignition, starting, charging, and accessory systems of modern motorcycles. Topics include: basic electrical theory and Ohms law, batteries, AC generators and rectifiers, points/coil, electronic, and magneto ignition systems, and lighting and accessories of motorcycles. Upon completion the student should be able to diagnose and repair the above systems.

MCT 103 - MOTORCYCLE FUEL SYSTEMS (7)

Prerequisite: MCT 100

This course covers the theory, operation and repair of carburetor and fuel injection systems on modern motorcycles. Upon completion the student should be able to service, rebuild and adjust the components of various motorcycle fuel systems.

DEKALB TECHNICAL COLLEGE
Clarkston Campus

MCT 104 - MOTORCYCLE CHASSIS AND SUSPENSION SYSTEMS (7)

Prerequisite: MCT 100
This course covers the maintenance, adjustment and repair of motorcycle chassis systems. Topic includes: brakes, front and rear suspensions and wheels. Upon completion the student should be able to diagnose, service and repair motorcycle chassis and suspension systems.

MCT 110 - MOTORCYCLE TECHNOLOGY SAFETY PROCEDURES (1)

This course provides instruction in procedures and practices necessary for the safe operation of motorcycle repair facilities. Topics include: work facility safety, work facility cleanliness, safety devices, environment safety, fire prevention, and personal safety.

MCT 112 - MOTORCYCLE MAINTENANCE (7)

Corequisites: MCT 100, MCT 110
This course serves as an introduction to the field of professional motorcycle service. Topics include: advanced shop and tool techniques, preventive maintenance, adjustments and minor repairs. Upon completion, students should be able to perform basic inspection and service of motorcycles and ATVs.

MCT 201 - TROUBLESHOOTING (7)

Prerequisites: MCT 100, MCT 101, MCT 102, MCT 103, MCT 104
This course covers procedures for efficient and accurate diagnosis of complaints in the mechanical, electrical and fuel systems of the motorcycle. Emphasis is placed on developing logical procedures for diagnosis. Upon completion the student should be able to perform accurate diagnosis of various motorcycle systems.

MCT 202 - MOTORCYCLE REPAIR INTERNSHIP (5)

Prerequisite: Completion of all other program courses
This course is an on-the-job work experience at an approved motorcycle repair facility. The student will have the opportunity to apply knowledge gained in course-work in a workplace environment.

ESTIMATED PROGRAM COSTS

**MOTORCYCLE SERVICE TECHNOLOGY
FOUR-QUARTER DIPLOMA**

First Quarter

Tuition/Fees.....	\$544.00
Books.....	165.00
Skills Course.....	250.00
Total.....	\$959.00

Second Quarter

Tuition/Fees.....	\$544.00
Books.....	50.00
Total.....	\$594.00

Third Quarter

Tuition/Fees.....	\$544.00
Books.....	45.00
Tools*	75.00
Total.....	\$664.00

Fourth Quarter*

Tuition/Fees.....	\$544.00
Total.....	\$544.00

Total Cost.....\$2,761.00

* Students may be required to own tools for the internship experience and employment.

Tuition/fees and cost of books/supplies are estimates only and are subject to change without notice. Tuition is based on Georgia residency. 10/07