STATE UNIVERSITY OF NEW YORK COLLEGE OF TECHNOLOGY CANTON, NEW YORK



MASTER SYLLABUS

COURSE NUMBER – COURSE NAME AUTO 111 – AUTOMOTIVE SERVICE LABORATORY

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Updated by: Brandon Baldwin

Canino School of Engineering Technology

Department: Automotive Technology Program

Semester/Year: Fall 2018

A.	TITLE: Automotive Service Laboratory
В.	COURSE NUMBER: Auto 111
C.	<u>CREDIT HOURS</u> : (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)
	# Credit Hours: 1 # Lecture Hours: per week # Lab Hours: (1) 2-hour lab per week Other: per week
	Course Length: 15 Weeks
D.	WRITING INTENSIVE COURSE: Yes \(\subseteq \text{No } \subseteq \)
Е.	GER CATEGORY: None: Yes: GER! If course satisfies more than one: GER!
F.	SEMESTER(S) OFFERED: Fall ⊠ Spring ☐ Fall & Spring ☐
G.	COURSE DESCRIPTION:
to susp	include automotive shop procedures involved in general maintenance of vehicles related tension, engine, and driveline. Additional information addresses New York State tion. Students who have successfully completed a high school vocational program in totive Mechanics/Technology may be eligible for transfer credit
Н.	PRE-REQUISITES: None Yes If yes, list below:
	CO-REQUISITES : None ☐ Yes ☐ If yes, list below:
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Auto 101 Automotive Service Lecture

I. <u>STUDENT LEARNING OUTCOMES</u>: (see key below)

By the end of this course, the student will be able to:

Course Student Learning Outcome [SLO]	Program Student Learning Outcome [PSLO]	GER [If Applicable]	<u>ISLO & SUBSI</u>	<u>ETS</u>
Demonstrate safe work practices in the Auto Lab	ALO1, ALO4	N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Utilize maintenance information from owner's manual and service manual	ALO1, ALO2, ALO3	N/A	1-Comm Skills 2-Crit Think 5-Ind, Prof, Disc, Know Skills	W CA IA PS
Recognize, differentiate and properly remove and install common fasteners found on automobiles and light trucks	ALO1	N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Demonstrate safe operation of floor jacks and safe use of jack stands	ALO1, ALO4	N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Perform dismount and remount of tires using a rim clamp style tire changer	ALO1	N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Use electronic spin balancer to balance tire wheel assembly	ALO1	N/A	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets

Demonstrate testing coolant for pH levels and specific gravity to determine freeze point, then drain and flush radiator	ALO1	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Demonstrate engine oil change and engine oil filter change	ALO1	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Evaluate disk brake pads and drum brake linings	ALO1	2-Crit Think 5-Ind, Prof, Disc, Know Skills ISLO	CA IA PS Subsets
Demonstrate the ability to work independently and in small groups	ALO1	1-Comm Skills 2-Crit Think 5-Ind, Prof, Disc, Know Skills	O CA IA PS

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]		
ISLO	ISLO & Subsets		
#			
1	Communication Skills		
	Oral [O], Written [W]		
2	Critical Thinking		
	Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem		
	Solving [PS]		
3	Foundational Skills		
	Information Management [IM], Quantitative Lit,/Reasoning		
	[QTR]		
4	Social Responsibility		
	Ethical Reasoning [ER], Global Learning [GL],		
	Intercultural Knowledge [IK], Teamwork [T]		
5	Industry, Professional, Discipline Specific Knowledge and		
	Skills		

^{*}Include program objectives if applicable. Please consult with Program Coordinator!

J.	APPLIED LEARNING COMPONENT: Yes No				
	If YES, select one or more of the following categories:				
	☐ Classroom/Lab ☐ Internship ☐ Clinical Placement ☐ Practicum ☐ Service Learning ☐ Community Service ☐ Clonical Placement ☐ Research ☐ Entrepreneurship ☐ (program, class, project) ☐ Community Service ☐ Community Service ☐ Covic Engagement ☐ Creative Works/Senior Project ☐ Research ☐ Entrepreneurship ☐ (program, class, project) ☐ Community Service ☐ Covic Engagement ☐ Creative Works/Senior Project ☐ Research ☐ Entrepreneurship ☐ (program, class, project) ☐ Community Service ☐ Civic Engagement ☐ Creative Works/Senior Project ☐ Research ☐ Entrepreneurship ☐ (program, class, project) ☐ Community Service ☐ Community Service ☐ Civic Engagement ☐ Civic Engagement ☐ Research ☐ Research ☐ Entrepreneurship ☐ (program, class, project) ☐ Community Service ☐ Community Service ☐ Civic Engagement ☐ Civic Engagement ☐ Community Service ☐ Community Service ☐ Community Service ☐ Civic Engagement ☐ Civic Engagement ☐ Community Service ☐ Community Service ☐ Community Service ☐ Civic Engagement ☐ Creative Works/Senior Project ☐ Community Service ☐ Civic Engagement ☐ Ci				
K.	<u>TEXTS</u> :				
Erjavec, Jack. NATEF Standards Job Sheets, Delmar Cengage Learning. 2015.					
L.	REFERENCES:				
All Data, shop manuals, ShopKeyPro					
M.	M. <u>EQUIPMENT</u> : None Needed: Student tool list				
N.	GRADING METHOD : A-F				
0.	SUGGESTED MEASUREMENT CRITERIA/METHODS:				
Performance Exams, attendance, preparedness for lab, applies learned knowledge, professional attitude, and completes assigned projects/tasks. Practicum at Midtern and Final Labs.					
P.	DETAILED COURSE OUTLINE:				
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