ONLINE:16 February – 1 April Shop Activity: 13 April – 11 Jun

Basic Course Information

Class Dates:

Class Days:

Units:



Note to Instructor: Replace the placeholder text beneath the headings with the appropriate information for your course. Please note that all sections, with the exception of "Other Course Information," are required elements.

Jose Lopez Semester: Spring 2021 Instructor Name: **Mechanical Automatic** Jose.lopez@imperial.edu **Transmissions** Course Title & #: Email: 20855 Webpage (optional): CRN #: Office #: Classroom: 1104 1101

Office Hours:

Office Phone #:

Class Format:

Emergency Contact:

1.00 pm – 2:00 pm 760-355-6507 -

CELL 760-791-9574

or E-mail.

Contact me by cell phone, text

Course Description

Design construction, mechanical, and hydraulic function and repair of the Automatic Transmission.

Course Prerequisite(s) and/or Corequisite(s)

T-TH

Class Times: | T-TH 6: 00 – 10:15 pm

4 UNITS

Feb. 16 - Jun 18

[Paste in the course perquisite(s) and/or corequisite(s) from the COR, located at https://imperial.curricunet.com/Search]

Student Learning Outcomes

- 1. Diagnose fluid loss and condition concerns; check fluid level in transmissions with and without dipsticks; determine necessary action. (IL01, IL02, IL03)
- 2.Inspect and replace external seals, gaskets, and bushings. (IL01, IL02, IL03)
- 3. Disassemble, clean, and inspect transmission/transaxle. (IL01,IL02,IL03)
- 4. Assemble transmission/transaxle. (IL01, IL02, IL03)

IVC as an institution has adopted five student learning outcomes (SLO's). They are interconnected with each other. They will be inherent throughout this course:

- 1. Communication
- 2. Skills
- 3. <u>Critical Thinking Skills</u>
- 4. Information Literacy
- 5. Global Awareness



Course Objectives

To prepare graduates for employment as automotive mechanics, parts and supply house technicians and service station mechanics and operators. The training program is intended to meet the entry level skill needs in the occupational field of Automotive Technology(mechanics).

Upon successful completion of this course, students will be able to:

- A. <u>Comply with all safety shop procedures associated with standards, air tools, hydraulic jacks, and car</u> lifts.
- B. Have a thorough understanding of Automotive Transmissions.
- C. <u>Describe the power flows systems of the Automotive Transmissions.</u>
- D. Describe the proper steps and procedures to disassembly and assembly of Automatic Transmissions.

Textbooks & Other Resources or Links

Modern Automotive Technology Book & Workbook, 2nd Edition.

Author: Van Gelder 1SBN:978-1-284-10995-5

Course Requirements and Instructional Methods

Out of Class Assignments: The department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates no less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Policies

[Describe other policies such as attendance, academic honesty, netiquette, expected classroom behavior, etc.]

Other Course Information

[Optionally, include other necessary information.]

IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit http://www.imperial.edu/studentresources or click the heart icon in Canvas.

Anticipated Class Schedule/Calendar

[Provide a tentative overview of the readings, assignments, tests, and/or other activities for the duration of the course. A table format as in the example below may be used for this purpose.]

Spring Class Schedule 2021

Classes begin: Feb. 16, 2021 – Jun 11, 2021 Late Registration: Feb. 27 – 2021



CLASS SYLLABUSAUT 220 -AUTOMATIC TRANSMISSIONS

Online February 16, - April 1

Textbooks: Modern Automotive Technology Book. Second Edition,

Author: Van Gelder

ISBN: 978-1-284-10995-8

IMPORTANT: Midterm Exam (60 Points) Will be given on April 01, 2021

TOPIC CHAPTERS

	TOTIC CHALLERS			
Weeks:	Introduction	Online Activities	Online Quiz/ Exams /	
	Automatic Transmission:		Assignments	
Week 1	Shop Automotive safety	Review safety	Safety Exam 87 True and	
		videos 1 ,2, 3	False Questions	
Week 2	Types of Transmissions	Review	Fill-in Transmission	
	Repair	Transmission	Worksheet	
	·	videos 1 ,2, 3		
Week 3	Chapter #1 -Chapter	Chapter#1	Answer: Worksheets	
	Career Automotive	Worksheets	Questions	
	Textbook:- Read	from workbook	pages 1-6	
	pages 1-15			
Week 4	Chapter # 5 - Vehicle	Chapter # 5	Answer: Worksheets	
	service information and	Worksheets	Questions	
	diagnostic process.	from workbook	pages:32-39	
	Textbooks: Read			
	pages 83-101			
Week 5	Chapter #6 Basic Tools and	Chapter # 6	Answer: Worksheets	
	Precision Measuring	Worksheets	Questions	
	Read pages :104 -157	Basic Tools	pages:41-50	
			F8	
Part II	Chapter #7	Chapter #7		
1 di t ii	Chapter #7	Chapter #7		



	Power Tools and	Worksheets	Answer: Worksheets		
	Equipment Read pages:	Equipment	Questions		
	154-193		pages:52-59		
Week 6	Watch Video - Ford	Part I	ASSIGNMENTS:		
	(AODE) Transmission	Worksheets	Review video questions		
	Part I.				
		Part II			
	Part II - Ford Transmission	Worksheets	Review video questions		
	Video				
Week 7	Chapter #23	Chapter #23	Answer: Worksheets		
	Automatic Transmissions	Worksheets	pages:217-225		
	Fundamentals				
	Read pages: 581 - 607				
	<u> </u>	End online course 4/01/21.			
	Start S	hop Activity 4/13/21.			
Week 8	Chapter #24	Chapter #24	Answer: Worksheets		
	Automatic Transmission	Worksheets	pages:226-232		
	Fundamentals.				
	Read pages: 608 - 625				
Week 9	General Motors	Part I	Assignment Activity		
Treek 5	Transmission.	Worksheets	Review video questions		
	4L60E	TTO I NOTICE LO	nerieu riace questiens		
	Watch video (Part I)				
	water video (rarer)				
	Watch video (Part II)	Part II	Review video questions		
		Worksheets			
Week 10	Chapter # 25	Chapter # 25	Assignment		
11.00% 20	Hydraulic Controlled	Worksheets	Answer: Worksheets		
	Transmission		pages:233-240		
	Textbook: Read pages		ha2co:=00 =10		
	626 - 637				
	020 037				



Week 11	Chapter # 26 Electronically Controlled	Chapter # 26 Worksheets	Assignment Answer: Worksheets		
	Transmission	VVOIKSITEELS	_		
	Textbook: Read pages			pages:242-248	
	638- 662				
	333 332				
Week 12	Chapter #27	Chapter # 27	Class Reviews		
	Servicing the Automatic	Review	Servi	Servicing Transmission	
	Transmission Axle	Worksheet			
	Textbook: read pages	questions			
	663-668				
Week 13	Chapter #28	Chapter # 28		Assignment	
	Rebuilding Automatic	Worksheets		Answer: Worksheets	
	Transmission Transaxle		р	ages:265-275	
	Textbook: read pages:		-	_	
	681-705.				
Week 14	Class Discussions and	#24 Hydraulic	#	25 Hydraulic	
	Reviews Chapters: - #23	Fundamentals	Electro	onically Controlled	
	Transmission		1	Transmission	
	Fundamentals				
Week 15	Chapter #26	#27 Servicing	#28 Rebuilding		
	Electronically Controlled	the Automatic	Automatic Transmission		
	Transmission	Transmission			
Week 16	EINIA	L WEEK EXA	N/		
	FINA	VVLEN EXF	AIVI		

Tentative, subject to change without prior notice
Shop Activity

Section 5