## MASTER SYLLABUS

Course Discipline	e Code & No: ASV 253	Title: Manual Dri	vetrain and Axles	Effective	Term <u>Fall 2009</u>
Division Code: _	VCT	Department Code	e:AUTD	Org	#:
Don't publish:	College Catalog	Time Schedule	☐Web Page		
New course ap ☐Three-year syl ☐Course change	labus review/Assessment re	eport	Reactivation of ina	uit this page only.)	
Change informati	on: Note all changes tha	t are being made. I	Form applies only to c	changes noted.	
required.  Course disciple *Must submit Course title (w Course descrip Course objecti Credit hours (a	ves (minor changes) credits were:)	SV 243 )* ous course. Axles	Pre-requisite, co-red Change in Grading Outcomes/Assessn Objectives/Evaluat Other	tact hours (contact hours)  contact hours (contact hours)  description of the contact hours (contact hours)  ment hours  ment hours (contact hours)  ment hours (contact hours)  ment hours (contact hours)	nours were: her) t restrictions
	se or course change. Atta		ent report for existing	courses that are be	eing changed.
	ent and divisional signatures				····
_	Day Vaculty/Preparer	New resources ne Signature Signature	eded Alfredeva	nt departments cons	Date: 10/29/2005  Date: 10/29/2005
	conditional approval	l g	***************************************		/ /
Recommendatio	n 🖊 Yes 🗌 No	m's Administrator's	Signature		$\frac{10/39/09}{\text{Date}}$
Curriculum Con Recommendation	mmittee Review	1			
☐ Tabled	Yes No Cu	riculum Committee	Chair's Signature		2/18/10 Date
./	for Instruction Approval  Vic  Ves  No  Conditional	e President's Signatu	Les especies		2-19-10 Date
Do not write in shade Log File	d area. Ecopy [] Banner(	C&A Database_	C&A Log File	Basic skills Cor	ntact fee 🔲

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

## MASTER SYLLABUS

Course: ASV 253	Course title: Manual Drive	en if changes are not beir etrain and Axles	ng made.
		-	
Credit hours: _2  If variable credit, give range:	Contact hours per semester:  Student Instructor	Are lectures, labs, or clinicals offered as separate sections?	Grading options:  P/NP (limited to clinical & practica)
tocredits	Lecture:     30     30       Lab:     22.5     22.5       Clinical:     _     _       Practicum:     _     _       Other:     _     _	Yes - lectures, labs, or clinicals are offered in separate sections  No - lectures, labs,	□S/U (for courses numbered below 100) □Letter grades
	Totals: <u>52.5</u> <u>52.5</u>	or clinicals are offered in the same section	
Prerequisites. Select one:			<u> </u>
College-level Reading & Writin	<u> </u>	ng/Writing Scores Level I prerequisite)	No Basic Skills Prerequisite (College-level Reading and Writing is not required.)
In addition to Basic Skills in Re	eading/Writing:		
Level I (enforced in Banner) Course  and or and or and or and or and or		Min. Score Concurs Enrollm Can be taken t	ent Must be enrolled in this class
Level II (enforced by instructor or	• •		
□ and □ or □ and □ or □	Course	Grade Test	Min. Score
Enrollment restrictions (In addit	tion to prerequisites, if applicable.	)	
□and □or Consent required			
Please send syllabus for trans Conditionally approved courses Insert course number and title yo			
E.M.U. as			as
U of M as			as
as _			as

Course: ASV 253	Course title: Manual Drivetrain and Axles	
Course description State the purpose and content of the course. Please limit to 500 characters.	This course is designed to give an understanding of the diag systems. The course includes manual transmission, manual system diagnosis and repair. This course focuses on remova components and sub-systems.	transaxle, differentials, transfer cases and clutch
Course outcomes	Outcomes	Assessment
List skills and knowledge	(applicable in all sections)	Methods for determining course effectiveness
students will have after taking the course.	Read and interpret vehicle service manuals	Common departmental exam; NATEF checklist
Assessment method Indicate how student	Diagnose basic drivetrain components	Common departmental exam; NATEF checklist
achievement in each outcome will be assessed to determine student	Replace and/or rebuild axles, transaxles, differentials and manual transmissions	NATEF Checklist
achievement for purposes of course improvement.	Remove, service and replace major drivetrain components	Common departmental exam; NATEF checklist
Course Objectives	Objectives	Evaluation
Indicate the objectives that support the course outcomes given above.	(applicable in all sections)	Methods for determining level of student performance of objectives
outcomes given above.	Outcome	
Course Evaluations	Outcome #1 and #2	
Indicate how instructors	Recognize and apply shop safety practices	Quizzes and exams; NATEF checklist
will determine the degree to which each objective is met for each student.	Recognize and apply proper procedures for diagnosing drivetrain, transaxle and transmission problems Outcome #1 and #3	Quizzes and exams; NATEF checklist
	Perform proper inspection, diagnose and recognize needed repairs on manual transmission including clutch, flywheel and hydraulic over manual	Quizzes and exams; NATEF checklist
	Perform proper inspection, diagnose and recognize needed repairs on manual transmission including pilot bearings and synchronizers	Quizzes and exams; NATEF checklist
	Perform proper inspection, diagnose and recognize needed repairs on manual transmission including shifters and linkage Outcome #1 and #4	Quizzes and exams; NATEF checklist
	Perform proper inspection, diagnose and recognize needed repairs on transaxles and axles including CV joints and boots	Quizzes and exams; NATEF checklist
	Perform proper inspection, diagnose and recognize needed repairs on transaxles and axles including powertrain mounts and drive axle	Quizzes and exams; NATEF checklist
	Perform repair and replacement of axle components and differentials using proper tools	Quizzes and exams; NATEF checklist

List all new resources needed for course, including library materials. None

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List examples of types		Estimated costs
Texts Supplemental reading	Today's Technician Series; Delmar Publishing;	\$ 100.00
Supplies	ISBN –	
Uniforms		
Equipment		
Tools		
Software		

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.) Check level only if the specified equipment is needed for all sections of a Off-Campus Sites course. Testing Center Level I classroom Permanent screen & overhead projector ⊠Computer workstations/lab  $\square$ ITV Level II classroom Level I equipment plus TV/VCR TV/VCR Data projector/computer Level III classroom Level II equipment plus data projector, computer, faculty workstation Other \_\_\_\_

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place (semester & year)	Course section(s)/other population	Number students to be assessed
Read and interpret vehicle service manuals	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All students enrolled	Approximately 30 students
Diagnose basic drivetrain components	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All students enrolled	Approximately 30 students
Replace and/or rebuild axles, transaxles, differentials and manual transmissions	NATEF Checklist	Fall 2011 and every three years thereafter	All students enrolled	Approximately 30 students
Removal, service and replacement of major drivetrain components	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All students enrolled	Approximately 30 students

## Scoring and analysis of assessment:

- Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external
  evaluation, other). Attach the rubric/scoring guide.
   Common departmental exam will be scored using an answer sheet.
  - NATEF checklist will be scored using the departmentally developed rubric (attached).
- 2. Indicate the standard of success to be used for this assessment. 70% of the students will score an overall average of 70% or higher
- 3. Indicate who will score and analyze the data (data must be blind-scored). Departmental faculty will blind-score data when possible.
- 4. Explain the process for using assessment data to improve the course.

  Assessment data will be evaluated to identify any areas of weakness. Program and course instruction will be reviewed to identify ways to improve student performance.