

MASTER SYLLABUS

Course Discipline Code & No: ASV 259 Title: Diagnosis and Repair Effective Term Sp/Su 2009
 Division Code: VTC Department Code: AUTD Org #: 14100
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

Consultation with all departments affected by this course is required. Total Contact Hours (total contact hours were: 120)
 Course discipline code & number (was ASV 249)* Distribution of contact hours (contact hours were: lecture: 15 lab 105 clinical _____ other _____)
 *Must submit inactivation form for previous course. Pre-requisite, co-requisite, or enrollment restrictions
 Course title (was _____) Change in Grading Method
 Course description Outcomes/Assessment
 Course objectives (minor changes) Objectives/Evaluation
 Credit hours (credits were: _____) Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.
 With the exception of the course number, course description (added last two sentences) and contact hours, the basic content of this master syllabus was approved by the committees and VP Palay 10/07

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted

Print: Allen Day Faculty/Preparer Signature Allen Day Date: 10/29/2009
 Print: Russell Ferguson Department Chair Signature Russell Ferguson Date: 10/29/2009

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No Dean's/Administrator's Signature 10/29/09
 Date

Curriculum Committee Review
 Recommendation Tabled Yes No Curriculum Committee Chair's Signature 2/18/10
 Date

Vice President for Instruction Approval
Vice President's Signature 2-19-10
 Date

Approval Yes No Conditional

Do not write in shaded area.
 Log File Copy Banner C&A Database C&A Log File Basic skills Contact 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.

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***Complete ALL sections which apply to the course, even if changes are not being made.**

Course: ASV 259	Course title: Diagnosis and Repair
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Credit hours: 4 If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%"> <tr> <td></td> <td style="text-align:center">Student</td> <td style="text-align:center">Instructor</td> </tr> <tr> <td>Lecture:</td> <td style="text-align:center">45</td> <td style="text-align:center">45</td> </tr> <tr> <td>Lab:</td> <td style="text-align:center">60</td> <td style="text-align:center">60</td> </tr> <tr> <td>Clinical:</td> <td style="text-align:center">___</td> <td style="text-align:center">___</td> </tr> <tr> <td>Practicum:</td> <td style="text-align:center">___</td> <td style="text-align:center">___</td> </tr> <tr> <td>Other:</td> <td style="text-align:center">___</td> <td style="text-align:center">___</td> </tr> <tr> <td>Totals:</td> <td style="text-align:center">105</td> <td style="text-align:center">105</td> </tr> </table>		Student	Instructor	Lecture:	45	45	Lab:	60	60	Clinical:	___	___	Practicum:	___	___	Other:	___	___	Totals:	105	105	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input checked="" type="checkbox"/> No - lectures, labs, or clinicals are offered in the same section	Grading options: <input type="checkbox"/> P/NP (limited to clinical & practica) <input type="checkbox"/> S/U (for courses numbered below 100) <input checked="" type="checkbox"/> Letter grades
	Student	Instructor																						
Lecture:	45	45																						
Lab:	60	60																						
Clinical:	___	___																						
Practicum:	___	___																						
Other:	___	___																						
Totals:	105	105																						

Prerequisites. Select one:

- College-level Reading & Writing
 Reduced Reading/Writing Scores (Add information at Level I prerequisite)
 No Basic Skills Prerequisite (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

Course	Grade	Test	Min. Score	Concurrent Enrollment <small>Can be taken together</small>	Corequisites <small>Must be enrolled in this class also during the same semester</small>
Any 2 of ASV 254 - 258	C	_____	_____	<input checked="" type="checkbox"/>	_____
<input checked="" type="checkbox"/> and <input type="checkbox"/> or ASV 157	C	_____	_____	<input checked="" type="checkbox"/>	_____

Level II (enforced by instructor on first day of class)

Course	Grade	Test	Min. Score
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Enrollment restrictions (In addition to prerequisites, if applicable.)

- and or Consent required
 and or Admission to program required
 and or Other (please specify): Completion of Automotive Mechanic Certificate or comparable field experience

Please send syllabus for transfer evaluation to:
 Conditionally approved courses are not sent for evaluation.
 Insert course number and title you wish the course to transfer as.

<input type="checkbox"/> E.M.U. as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> U of M as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> _____ as _____	<input type="checkbox"/> _____ as _____

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Course ASV 259	Course title Diagnosis and Repair
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Course description State the purpose and content of the course. Please limit to 500 characters.	This course is designed to provide the student with the skills necessary to diagnose and repair late model automobiles and light trucks in a repair facility environment. There is a focus on "road going" vehicle repair and diagnosis in this course. Students will experience the various roles they will encounter in a repair facility.
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Course outcomes List skills and knowledge students will have after taking the course. Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	Outcomes (applicable in all sections)	Assessment Methods for determining course effectiveness
	Diagnose and repair engine performance problems Diagnose and repair electrical systems problems Diagnose and repair HVAC systems problems Diagnose and repair brake and related ABS systems problems Diagnose and repair steering and suspension systems	NATEF task check list NATEF task check list NATEF task check list NATEF task check list NATEF task check list

Course Objectives Indicate the objectives that support the course outcomes given above. Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	Objectives (applicable in all sections)	Evaluation Methods for determining level of student performance of objectives
	The student will identify and interpret braking system concerns, interpret readings and determine necessary action. The student will identify and interpret engine drivability concerns using electronic engine scanners to access vehicle on-board computers, interpret readings and determine necessary action. The student will identify and interpret engine mechanical system-related problems, interpret readings and determine necessary action. The student will identify and interpret HVAC-related problems, interpret readings and determine necessary action. The student will identify and interpret steering and suspension system-related problems, interpret readings and determine necessary action. The student will identify and interpret electronic accessory-related problems, interpret readings and determine necessary action.	Practical lab experience based on accepted manufacturer's standards. Practical lab experience based on accepted manufacturer's standards Practical lab experience based on accepted manufacturer's standards Practical lab experience based on accepted manufacturer's standards Practical lab experience based on accepted manufacturer's standards

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

Student Materials:		
List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software	Today's Technician – Engine Repair; E. Dorries; Delmar Publishing; ISBN –	Estimated costs \$100.00

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Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level <u>only</u> if the specified equipment is needed for <u>all</u> sections of a course.	<input type="checkbox"/> Off-Campus Sites
<input type="checkbox"/> Level I classroom Permanent screen & overhead projector	<input type="checkbox"/> Testing Center
<input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR	<input type="checkbox"/> Computer workstations/lab
<input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> ITV
	<input type="checkbox"/> TV/VCR
	<input type="checkbox"/> Data projector/computer
	<input type="checkbox"/> 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
Diagnose and repair engine performance problems	NATEF task check list	Winter 2010 & every 3 years after that.	All	All
Diagnose and repair electrical systems problems	NATEF task check list	Winter 2010 & every 3 years after that.	All	All
Diagnose and repair HVAC systems problems	NATEF task check list	Winter 2010 & every 3 years after that.	All	All
Diagnose and repair brake and related ABS systems problems	NATEF task check list	Winter 2010 & every 3 years after that.	All	All
Diagnose and repair steering and suspension systems	NATEF task check list	Winter 2010 & every 3 years after that.	All	All

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.

Lab activities will be scored based on NATEF check sheet using attached rubric.

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).

Faculty will blind-score data.

4. Explain the process for using assessment data to improve the course.

- A. Department faculty will review assessment data and identify areas of weakness. Course construction changes may be made if appropriate.
- B. The Washtenaw Community College Automotive Service Technician Program is to be certified by the National Automotive Technicians Education Foundation (NATEF). This certification is under the control of the National Institute of Automotive Service Excellence (ASE). This certification requires regular on-site evaluations of facilities, staff, equipment, curriculum, support offices, student evaluation procedures, etc.