

Course Discipline Code & No: ASV 154 Title: Automotive Service IV Effective Term Fall 2009Division Code: VCTDepartment Code: AUTD

Org #: _____

Don't publish: ☐ College Catalog ☐ Time Schedule ☐ Web Page

Reason for Submission. Check all that apply.

☒ New course approval☐ Three-year syllabus review/Assessment report☒ Course change☐ Reactivation of inactive course☐ Inactivation (Submit this page only.)

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.☒ Course discipline code & number (was ASV 144)*

*Must submit inactivation form for previous course.

☒ Course title (was Automotive Mechanics IV)☒ Course description☒ Course objectives (minor changes)☐ Credit hours (credits were: _____)☒ Total Contact Hours (total contact hours were: 120)☒ Distribution of contact hours (contact hours were:
lecture: 30 lab 90 clinical _____ other _____)☒ Pre-requisite, co-requisite, or enrollment restrictions☐ Change in Grading Method☐ Outcomes/Assessment☐ Objectives/Evaluation☐ Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

Course is being re-written as part of the overall program update.

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 consultedPrint: Allen Day
Faculty/PreparerSignature: Allen DayDate: 6/29/2009Print: Russ Ferguson
Department ChairSignature: R FergusonDate: 10/29/2009

Division Review by Dean

☐ Request for conditional approvalRecommendation ☒ Yes ☐ NoDean's/Administrator's Signature: [Signature]Date: 10/29/09

Curriculum Committee Review

Recommendation

☐ Tabled☒ Yes ☐ NoCurriculum Committee Chair's Signature: [Signature]Date: 12/8/09

Vice President for Instruction Approval

Vice President's Signature: [Signature]Date: 12/10/09Approval ☒ Yes ☐ No ☐ Conditional

Do not write in shaded area.

Log File 11/10/09 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.

MASTER SYLLABUS

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

Course: ASV 154	Title: Automotive Service IV
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Credit hours: <u>4</u> If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width: 100%;"> <tr> <th></th> <th style="text-align: center;"><u>Student</u></th> <th style="text-align: center;"><u>Instructor</u></th> </tr> <tr> <td>Lecture:</td> <td style="text-align: center;"><u>45</u></td> <td style="text-align: center;"><u>45</u></td> </tr> <tr> <td>Lab:</td> <td style="text-align: center;"><u>60</u></td> <td style="text-align: center;"><u>60</u></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;"><u>105</u></td> <td style="text-align: center;"><u>105</u></td> </tr> </table>		<u>Student</u>	<u>Instructor</u>	Lecture:	<u>45</u>	<u>45</u>	Lab:	<u>60</u>	<u>60</u>	Clinical:	—	—	Practicum:	—	—	Other:	—	—	Totals:	<u>105</u>	<u>105</u>	Are lectures, labs, or clinicals offered as separate sections? ☐ Yes - lectures, labs, or clinicals are offered in separate sections ☒ No - lectures, labs, or clinicals are offered in the same section	Grading options: ☐ P/NP (limited to clinical & practica) ☐ S/U (for courses numbered below 100) ☒ Letter grades
	<u>Student</u>	<u>Instructor</u>																						
Lecture:	<u>45</u>	<u>45</u>																						
Lab:	<u>60</u>	<u>60</u>																						
Clinical:	—	—																						
Practicum:	—	—																						
Other:	—	—																						
Totals:	<u>105</u>	<u>105</u>																						

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 Can be taken together)	Corequisites Must be enrolled in this class also during the same semester)
☒ ASV 151	<u>C</u>	_____	_____	☐	_____
☐ and ☐ or ASV 152	<u>C</u>	_____	_____	☐	_____
☐ and ☐ or _____	_____	_____	_____	☐	_____

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

Course	Grade	Test	Min. Score
☐ and ☐ or _____	_____	_____	_____
☐ and ☐ or _____	_____	_____	_____

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

- ☐ and ☐ or Consent required
 ☐ and ☐ or Admission to program required
 ☐ and ☐ or Other (please specify): _____
 Program: _____

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.

- | | |
|--|---|
| ☐ E.M.U. as _____ | ☐ _____ as _____ |
| ☐ U of M as _____ | ☐ _____ as _____ |
| ☐ _____ as _____ | ☐ _____ as _____ |

Course: ASV 154	Title: Automotive Service IV	
Course description State the purpose and content of the course. Please limit to <u>500</u> characters.	This course covers the theory and fundamentals of testing and repairing fuel injection, emission control and on-board diagnostics (OBD II) systems. This course also covers basic on-car engine repairs and diagnostic testing. The focus of this course allows students to gain practical experience in the laboratory.	
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) 1. Read and interpret vehicle service manuals 2. Identify and diagnose basic fuel system components 3. Recognize and diagnose basic emission control components 4. Identify and use OBD-II	Assessment Methods for determining course effectiveness Common departmental exam; NATEF checklist Common departmental exam; NATEF checklist Common departmental exam; NATEF checklist Common departmental exam; NATEF checklist
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) Outcome #1 Read and interpret vehicle service manuals. Identify and secure appropriate parts. Outcome #2 Identify and perform basic service on fuel injectors. Recognize and calibrate fuel injectors and perform flow balancing. Outcome #3 Identify and service EGR. Recognize and service catalytic converters. Identify and service oxygen sensors. Recognize and replace temperature sensors. Outcome #4 Recognize the On-Board Diagnostic II (OBD II) system. Identify how the OBD II provides engine control and monitors the emission system. Recognize and use the OBD II as the emission diagnostic control of the vehicle. Identify and apply OEM standards through OBD-II verification.	Evaluation Methods for determining level of student performance of objectives Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist Quizzes and exams; NATEF checklist

List all new resources needed for course, including library materials.

None

Student Materials:

List examples of types		Estimated costs
Texts Supplemental reading Supplies	Automotive Service, 3 rd Edition; Tim Gills; Delmar Publishing; ISBN – 10:1-4180-3758-3	\$ 122.00
Uniforms Equipment Tools Software	Automotive Service Lab Manual Safety glasses, closed toe leather shoes, long pants	\$ 30.00

MASTER SYLLABUS

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 course.

☐ Level I classroom

Permanent screen & overhead projector

☐ Level II classroom

Level I equipment plus TV/VCR

☒ Level III classroom

Level II equipment plus data projector, computer, faculty workstation

☐ Off-Campus Sites

☐ Testing Center

☒ Computer workstations/lab

☐ ITV

☐ TV/VCR

☐ Data projector/computer

☐ 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 sections	All Students
Identify and diagnose basic fuel system components	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All sections	All Students
Recognize and diagnose basic emission control components	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All sections	All Students
Identify and use OBD-II	Common departmental exam; NATEF checklist	Fall 2011 and every three years thereafter	All sections	All Students

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.

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.