

# ACADEMIC SENATE PROPOSAL TRACKING SHEET

(Document To Be Originated By Academic Senate Secretary On Canary Color Paper)

All proposals MUST have their originating college faculty body (Ex. Nursing, Technical Sciences, Arts & Sciences, Education) approval and must be signed by the submitter and the college chair/dean before being submitted to the academic senate secretary.

1. Submit all proposals (using the appropriate Academic Senate program/degree and/or course revision forms) to the Academic Senate Secretary.
2. The Academic Senate Secretary logs and numbers items and forwards them to the appropriate Academic Senate subcommittee(s): Teacher Education (if applicable), General Education (if applicable), or Curriculum.
3. The Academic Senate subcommittee(s) consider(s) the proposal. If approved, the proposal is forwarded to the next committee. If a committee disapproves the proposal, the originator may request that the item be forwarded to the next body for consideration. The committee will provide written rationale to the originator when a proposal is disapproved and the proposal is returned to the originator.
4. The Academic Senate considers the proposal and approves or disapproves. If approved, the proposal is forwarded to the Full Faculty for consideration. If the Academic Senate disapproves the proposal, the originator may request that the item be forwarded to the Full Faculty for consideration. The Academic Senate will provide written rationale to the originator when proposals are disapproved and the proposal is returned to the originator.
5. The Full Faculty considers academic senate approved proposals. If faculty approve, the proposal will then be forwarded to the Provost. The Provost approves or disapproves the proposal. If approved, the proposal is then forwarded to the Chancellor.
7. The Chancellor approves or disapproves the proposal.

Subcommittee and Academic Senate college representatives will notify their respective colleges' of the progress of submitted proposals or the proposal may be tracked via the web page --

<http://www.msun.edu/admin/provost/asproposals.htm>

Documentation and forms for the curriculum process is also available on the web page:

<http://www.msun.edu/admin/provost/asforms.htm>

\*\*\*\*\* (If a proposal is disapproved at any level, it is returned through the Academic Senate secretary to the Chair/Dean of the submitting college who then notifies the originator.)

Proposal # <u>07-23</u>	Title: <u>AUTO AAS Religious (FAST TRACK)</u>
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(proposal explanation, submitter and college chair/dean signatures on attached program/degree or course revision form)

Received by ACAD Senate Forwarded to Teacher Ed Council	Date <u>4/21/08</u> <u>NA</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>4/24/08</u>
Forwarded to Gen Ed Committee	<u>4/21/08</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>5/1/08</u>
Returned to ACAD Senate Forwarded to Curriculum Committee	<u>4/24/08</u> <u>4/24/08</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>5-1-08</u>
Returned to ACAD Senate for Vote	<u>5-1-08</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved _____ Disapproved _____ Signature _____ Date _____
Sent to Provost's office for Full Faculty vote Voted on at Full Faculty meeting	_____ _____	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>6-5-08</u>
Forwarded to Provost for Approval/Disapproval	<u>5/8/08</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>4/6/08</u>
Forwarded to Chancellor for Approval/Disapproval	<u>4/6/08</u>	Approved _____ Disapproved _____ <hr/> Signature _____ Date _____ Approved <input checked="" type="checkbox"/> Disapproved _____ Signature _____ Date <u>4/6/08</u>

Copies sent to originating college and registrar's office  
 C:/data/proposaltracking sheet ACAD 10 10 01





## COURSE REVISION FORM

NEW \_\_\_\_\_ DROPPED \_\_\_\_\_ MAJOR REVISION \_\_\_\_\_ FOR INFORMATION ONLY **X** \_\_\_\_\_

College COTS Program Area Auto Date 4-23-08

Submitter \_\_\_\_\_ Dean  Date 4-24-08  
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

We are revising the automotive curriculum to include hybrid and diesel vehicles with-in the associate degree program.

Please provide the following information:

**College:** COTS  
**Program Area:** Automotive  
**Date:** 4-23-2008  
**Course Prefix & No.:** Auto 115  
**Course Title:** Introduction to Automotive Service  
**Credits:** 1  
**Required by:** Automotive certificate, AAS, BS, Minor  
**Selective in:** none  
**Elective in:** none  
**General Education:** no  
**Lecture:** X  
**Lecture/Lab:**  
**Gradable Lab:**  
**Contact hours lecture:** 1  
**Contact hours lab:** 0

### Current Catalog Description (include all prerequisites):

An introductory course designed to assist the novice automotive technician in adjusting to the demands of an automotive service facility. This course will expose the student to the flat rate method of shop pay as well as focus on many customer concerns. The student will experience the most effective method when dealing with customer service while demonstrating correct dealer etiquette.

### Proposed or New Catalog Description (include all prerequisites):

An introductory course designed to assist the novice automotive technician in adjusting to the demands of an automotive service facility. This course will expose the students to the flat rate method of shop pay. Students will also develop a portfolio which showcases the student's technical expertise and human relation skills for obtaining cooperative education and full time employment. This course meets the human relation component of related instruction for CAS and AAS degrees. Students will fulfill human relations requirements for the Automotive Certificate of Applied Science and Associate of Applied Science by completing this course.

### Course Outcome Objectives:

Upon completing this course the student will have the ability to properly communicate automotive technology to customers and present a professional image of their employer.

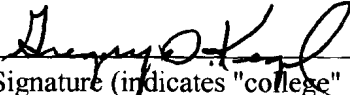
**Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.**

Auto115courserevisionform0708

## COURSE REVISION FORM

NEW \_\_\_\_\_ DROPPED \_\_\_\_\_ MAJOR REVISION \_\_\_\_\_ FOR INFORMATION ONLY **X** \_\_\_\_\_

College COTS Program Area Auto Date 4-23-08

Submitter \_\_\_\_\_ Dean  Date 4.24.08  
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):

We are revising the automotive curriculum to include hybrid and diesel vehicles with-in the associate degree program.

Please provide the following information:

**College:** COTS  
**Program Area:** Automotive  
**Date:** 4-23-2008  
**Course Prefix & No.:** ATDI 134  
**Course Title:** Auto/Diesel Electrical/Electronic Systems I  
**Credits:** 4  
**Required by:** Agricultural Mechanics Technology AAS  
Agricultural Mechanics Technology Minor  
Agricultural Mechanics Technology Certificate  
Agricultural Operations Technology BS  
Automotive Technology Minor  
Diesel Technology BS  
Diesel Technology AAS  
Diesel Technology Field Maintenance Option BS  
Automotive Technology Certificate  
Automotive Technology (Automotive Body) AAS  
Automotive Technology AAS  
Automotive Technology BS

**Selective in:** none

**Elective in:** none

**General Education:** no

**Lecture:**

**Lecture/Lab:** X

**Gradable Lab:**

**Contact hours lecture:** 2

**Contact hours lab:** 4

### Current Catalog Description (include all prerequisites):

A beginning course in the study of electrical/electronic fundamentals applied to automotive and commercial vehicle systems. Includes theory, design, diagnosis, and repair of wiring and circuits, batteries, alternators, and starters. The use of test instruments and electrical troubleshooting manuals currently recommended by industry will be emphasized.

### Proposed or New Catalog Description (include all prerequisites):

This is a course in the study of electrical/electronic fundamentals applied to automotive and commercial vehicle systems. It includes theory, design, diagnosis, and repair of wiring and circuits, batteries, alternators, and starters. The use of test instruments and electrical troubleshooting manuals currently recommended by industry will be emphasized. Ohms law and circuit analysis, as it applies to industry, will also be examined. Students will fulfill computation requirements for Certificate of Applied Science and Associate of Applied Science by completing this course.

**Course Outcome Objectives:**

The student will understand Ohm's Law, series parallel and series-parallel circuits, the theory of magnetism, basic vehicle wiring, and the use of electrical test equipment. The student will be able to test and/or repair both automotive and heavy duty alternators, starters, batteries, solenoids, voltage regulators and electrical systems.

**Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.**

Atdi134courserevform0708

### COURSE REVISION FORM

NEW \_\_\_\_\_ DROPPED \_\_\_\_\_ MAJOR REVISION \_\_\_\_\_ FOR INFORMATION ONLY **X** \_\_\_\_\_

College COTS Program Area Auto Date 4-23-08

Submitter \_\_\_\_\_ Dean *Gregory O. Kauf* Date 4.24.08  
Signature Signature (indicates "college" level approval)

Please provide a brief explanation & rationale for the proposed revision(s):  
We are revising the automotive curriculum to include hybrid and diesel vehicles with-in the associate degree program.

Please provide the following information:

**College:** COTS  
**Program Area:** Automotive  
**Date:** 4-23-2008  
**Course Prefix & No.:** ATDI 264  
**Course Title:** Auto/Diesel Electrical/Electronic Systems II  
**Credits:** 4  
**Required by:** Automotive certificate, AAS, BS, Minor, Diesel AAS, BS, Minor  
**Selective in:** none  
**Elective in:** none  
**General Education:** no  
**Lecture:**  
**Lecture/Lab:** X  
**Gradable Lab:**  
**Contact hours lecture:** 2  
**Contact hours lab:** 4

**Current Catalog Description (include all prerequisites):**

This course is a continuation of the study of electrical/electronic systems in use on current automotive and commercial vehicles. With emphasis on industry recommended diagnostic and repair procedures, topics include charging and cranking systems, ignition systems, power accessories, and an introduction to microprocessor-based engine, powertrains, and brake/suspension control systems. Prerequisite: ATDI 134. Course Fee: \$20.00

**Proposed or New Catalog Description (include all prerequisites):**

This course is a continuation of the study of electrical/electronic systems in use on current automotive and heavy equipment. The course will study industry recommended diagnostic and repair procedures, charging and cranking systems, ignition systems, power accessories, and an introduction to microprocessor-based engine, powertrains, and brake/suspension control systems. Students will fulfill communication requirements for Certificate of Applied Science and Associate of Applied Science by completing this course. Prerequisite: ATDI 134. Course Fee: \$20.00

**Course Outcome Objectives:**

- Use wiring diagrams during diagnosis of electrical circuit problems.
- Check electrical circuits with a test light; determine needed repairs.
- Check voltage and voltage drop in electrical /electronic circuits using a digital multimeter (DMM); determine needed repairs.
- Check current flow in electrical/electronic circuits and components using an ammeter; determine needed repairs.
- Check electrical circuits using jump wires; determine needed repairs.
- Find shorts, grounds, opens and resistance problems in electrical/electronic circuits; determine needed repairs.
- Measure and diagnose the cause(s) of abnormal key-off battery drain; determine needed repairs.
- Inspect and test fusible links, circuit breakers, and fuses; replace as needed.
- Inspect and test switches, connectors, relays and wires of electrical/electronic circuits; repair or

replace as needed.  
Perform battery state-of-charge test; determine service.  
Perform battery capacity (load, high-rate discharge) test; determine needed service.  
Maintain or restore electronic memory function.  
Inspect, clean, fill, and replace battery.  
Perform slow/fast battery charge.  
Inspect and clean battery cables, connectors, clamps, and hold-downs; repair or replace as needed.  
Start a vehicle using jumper cables and a battery or auxiliary power supply.  
Perform starter current draw and circuit voltage drop test; determine needed repairs.  
Inspect and test starter relays and solenoids, replace as needed.  
Remove and replace/reinstall starter.  
Perform starter bench tests; determine needed repairs.  
Inspect, test, and repair or replace switches, connectors, and wires of starter control circuits.  
Disassemble, clean, inspect, and test starter components; replace as needed.  
Diagnose charging system problems that cause an undercharge, a no-charge or an overcharge condition.  
Inspect and adjust alternator drive belt; replace as needed.  
Inspect and test voltage regulator; replace as needed.  
Remove, inspect, and replace/reinstall alternator.  
Disassemble, clean, inspect, and test components; replace as needed.  
Perform charging circuit voltage drop tests; determine needed repairs.  
Diagnose brighter than normal, intermittent, dim or no light operation.  
Inspect, replace, and aim headlights and bulbs.  
Inspect and diagnose incorrect turn signal or hazard light operation; repair or replace as needed.  
Diagnose intermittent, high, low, or no gauge readings.  
Test gauge circuit voltage regulators (limiters); replace as needed.  
Inspect and test connectors, wires, printed circuit boards of gauge circuits; repair or replace as needed.  
Diagnose incorrect operation of warning devices and other driver information systems.  
Diagnose intermittent, high, low, or no readings on electronic instrument clusters.  
Inspect and test sensors, sending units, connectors, and wires of electronic instrument circuits; repair or replace as needed.  
Diagnose incorrect horn operation; repair as needed.  
Diagnose wiper operation; diagnose wiper speed control and park problems; repair as needed.  
Diagnose incorrect windshield washer operation; repair as needed.  
Diagnose incorrect operation of motor-driven accessory circuits; repair as needed.  
Diagnose incorrect heated glass operation; repair as needed.  
Diagnose incorrect electric door and hatch-trunk lock operation; repair as needed.  
Diagnose incorrect operation of cruise control systems; repair as needed.  
Diagnose supplement restraint system (SRS) problems; repair as needed. (Note: Follow manufacturer's safety procedures to prevent accidental deployment.)

**Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.**

ATDI264courserevform0708