



Minnesota State University, Mankato HOLD and CLEAR buttons only compatible with Acrobat V. 4 and 5.
Curriculum Proposal

08-84

Please type or select the requested information. Print completed forms, add appropriate paper attachments, and route through MSU's curricular process for recommendations and decisions.

(Check all that apply):

College: Science, Engineering and Technology Undergraduate
 Department: Automotive and Manufacturing Engineering Graduate
 Program: Automotive Engineering Technology CIP # _____
 Type of Change: COURSE PROPOSALS
 Proposed: Change in Course—Other *Pre req + Desc.*
 Title Current: Automotive Thermodynamics and Engine Design
 Title Proposed: _____
 24-Char. Abbrev: _____

Proposal #	<u>235</u>
Effective Date of Change:	_____
Academic Year	<u>07-08</u>
(For Office Use Only)	

Course Designator and Number	Number of Credits
AET 366	3
_____	_____
_____	_____

(if applicable)

Include a course or program description for the Bulletin (30-40 words maximum for courses, 100 for programs):
 This course focuses on the study of thermodynamics as it relates to internal combustion engines and their design. Static and dynamic engine measurements are thoroughly covered along with an introduction to fuel cell and hybrid applications. Thermochemistry topics are covered including fuel characteristics, mixture ratios and emission characteristics. Fall & Spring
 Prerequisite: AET 261, CHEM 104; Corequisite: Math 121

Rationale or Justification for change:

See attached

For General Education or Cultural Diversity Courses Only

General Education Course:		Cultural Diversity Course:
GE Category #	GE Category Name (Maximum of 3 Categories)	(Please check one.)
N/A	_____	<input type="checkbox"/> Core (At least 75% devoted to topics of race, gender, sexual orientation, age, class, and disabilities as they occur in United States Society.)
N/A	_____	<input type="checkbox"/> Related (At least 25% devoted to the above topics or to a global perspective on topics related to African American, Asian, Hispanic, and Native American inhabitants of the United States.)
N/A	_____	

? For Writing Intensive Courses, attach a description of the kind and quantity of writing.
 ? For Upper Division Courses, include a description of the respects in which it is broad and general rather than narrow and specific, and so suitable as GE.

Attach paper copies of the following:
 a. Syllabus or course outline.
 b. Course's student learning outcomes associated with each GE competency or CD designation.
 c. List of strategies to be used to assess students' achievement of each GE competency or CD designation.

For New Courses

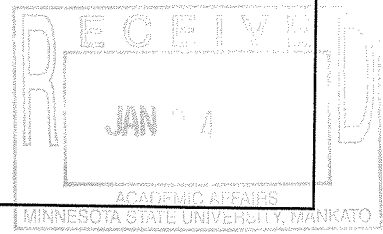
(Check all that apply):

Instructional Type: Lecture
 Grading Format: Grade P/N
 Course will be offered:
 Fall Semester
 Spring Semester
 Summer Session

Course is an elective.
 Course is required for program
 Pre- or Co-requisites: _____
 Other courses are being changed or eliminated. (Explain.) _____

Course content or title is similar to courses in other departments. (Attach copy of letter of agreement with other program(s) contacted. Indicate the nature of the discussions and/or resolution of differences or potential conflicts.)

Attach paper copies of the following:
 a. Syllabus or course outline.
 b. Course's student learning outcomes.
 c. A list of resources required to offer and support this course.
 d. A description of how teaching this course will affect department staffing.
 e. If 400/500 level course, an explanation of added expectations of graduate students.





Minnesota State University, Mankato
Curriculum Proposal

Signature Page

Department

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

[Signature] 10/24/07
 Department Chair / Date

Comments:

College Curriculum Committee

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

[Signature] 1/22/08
 Committee Chair / Date

Comments:

College Dean

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

[Signature] 1/22/08
 Dean / Date

Comments:

General Education Subcommittee

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

 General Education Subcommittee Chair / Date

Comments:

Undergraduate Curriculum and Academic Policy Committee

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

[Signature] 3/7/08
 UCAP Faculty Chair / Date

Comments:

Faculty Association Graduate Committee

Recommended
 Not Recommended

 Faculty Association Graduate Chair / Date

Comments:

Graduate Dean

Recommended
 Not Recommended

 Graduate Dean / Date

Comments:

Academic Affairs Council

Recommended (Category/ies _____)
 Not Recommended (Category/ies _____)

[Signature] 3/14/08
 Assistant Vice President / Date

Comments:

Senior Vice President and Vice President for Academic Affairs

Approved (Category/ies _____)
 Not Approved (Category/ies _____)

[Signature] 3/14/08
 Sr. Vice President / Vice Pres Academic Affairs / Date

Comments:

08-84

2007 AET Program Changes Summary Sheet 11/11/07

Proposal #	Course Number	Course Name	New Name	Current Pre-Requisites	Proposed Pre-requisites
884	AET 366 (3)	Thermodynamics and Engine Design		AET 261; Co-requisite: MATH 121, CHEM 104	AET 261, CHEM 104; Co-requisite: MATH 121

Chemistry 104 has been changed from a co-requisite to a pre-requisite to ensure all students have a better understanding of Chemistry before the topic of fuel is discussed.