REQUEST FOR A COURSE CHANGE
University of Central Oklahoma

Course Subject (Prefix), Number, and Title:

<table>
<thead>
<tr>
<th>Existing</th>
<th>Course Subject</th>
<th>Number</th>
<th>Thermodynamics</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR</td>
<td>3203</td>
<td></td>
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Proposed:

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<th>Course Subject</th>
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<tr>
<td>ENGR</td>
<td>2203</td>
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Proposed Title: (full course title if longer than 30 characters)

Proposed change(s) to this course: Mark all that apply.

<table>
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<tr>
<th>Credit Hour</th>
<th>X</th>
<th>Level</th>
<th>X</th>
<th>Title</th>
<th>Description</th>
<th>X</th>
<th>Prerequisite</th>
<th>Enrollment Restriction</th>
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X Other:

Concurrent Enrollment, Co-requisite

CIP Code If changing, what is the new code?

For more information regarding CIP codes contact your department chair or visit:
http://www.uco.edu/academic-affairs/ir/program_inventory.asp.

Course description:

As it appears in the current catalog. (required)

This course provides an introduction to the laws of thermodynamics. Thermodynamic properties are defined that describe the behavior and state of systems. The laws of thermodynamics are applied to control masses and control volumes. Thermodynamic analysis is applied to a variety of standard thermodynamic devices and cycles.

Existing:

As it will appear in the next catalog or indicate no change. (Please use standard American English including full sentences.)

Proposed: No Change

- Engineering and Physics

Department submitting the proposal

Mohammad Robiul Hossan

mhossan@uco.edu

5295

Person to contact with questions

email address

Ext. number

Approved by:

Department Chairperson

Date

College Curriculum Committee Chair

Date

(please notify department chair when proposal is forwarded to dean.)

Academic Affairs Curriculum or Graduate Council

Date

(JCGS Dean (for Graduate Proposals)

Date

Office of Academic Affairs

Date

Effective Term (assigned by AA)

July, 2019

Functional Review

CF 9/29/20
(undergraduate proposals only)
1. Does this course have an undergraduate / graduate counterpart?  
   ___ Yes  ___ X No

2. Is this proposal part of a larger submission package including a program change?  
   ___ Yes  ___ X No

3. Does this course affect a teacher preparation program? (All courses required for any teacher preparation program must have approval from the Council on Teacher Education (CTE) before approval from AACC or Graduate Council.)  
   ___ Yes  ___ X No  If yes, send copy of proposal to the Education Curriculum Committee Chair, Dr. Darla Fent
   CTE Approval (Stamp or initial) __________ 

4. Is this course currently listed in the University Core?  
   ___ Yes  ___ X No  If you wish this course be listed in the University Core, submit University Core course proposal.

5. Is this course a prerequisite for any other course(s)?  
   ___ X Yes  ___ No  If this change affects the prerequisite, complete course change proposal to delete or change prerequisite.

6. Is this course a requirement in any major or minor?  
   ___ X Yes  ___ No  If this change impacts the requirement of any major or minor, complete program change proposal.

7. Does this course affect majors or minors outside the department?  
   ___ X Yes  ___ No  If yes, provide name(s) of department chair(s) contacted, the dates, and the results of the discussion.

8. List all majors or minors which include this changed course as a requirement or elective.  
   (list major or minor by title not major code)
   Mechanical Engineering – Mechanical Engineering, Engineering Physics- Physics, Biomedical Engineering – Biomedical Engineering

9. Prerequisite courses:  
   Will the prerequisite courses change?  ___ X Yes  ___ No  If yes, fill out below, if no leave blank.

   NOTE: Adding a "new course" as a prerequisite to an existing course will likely cause enrollment problems.

   As listed at the end of the course description in the current catalog. (Required)

   Existing: 3103 with a minimum grade of "C"
   Proposed: ENGR 2033 with a minimum grade of "C"

   Example 1: MATH 1213 and (MATH 2165 or MATH 2185) and CHEM 1213
   Example 2: (ACCT 2113 and 2213) and (MGMT 3013 or 3613)
   Example 3: 8 hours of biology including BIO 1404

10. Co-requisite(s): Prerequisite courses that may be taken in the same semester.  
    Will the co-requisite(s) change?  ___ X Yes  ___ No  If yes, fill out below, if no leave blank.

    As listed at the end of the course description in the current catalog. (Required)

    Existing: MATH 3103
    Proposed: MATH 2343

11. Concurrent enrollment: Courses that must be taken the same semester.  
    Example: lab courses.
    Will the concurrent enrollment change?  ___ X Yes  ___ No  If yes, fill out below, if no leave blank.

    As listed at the end of the course description in the current catalog. (Required)

    Existing: ENGR 3203D
    Proposed: ENGR 2203D
12. Does this course currently have enrollment restrictions?
   \( X \) Yes  \( \Box \) No  
   If adding or changing enrollment restrictions answer questions 13-15. If not changing or add enrollment restrictions leave questions 13-15 blank.

13. Specify which major(s) may or may not take this course.
   Will the major(s) restriction change?  \( X \) Yes  \( \Box \) No  
   If yes, fill out below, if no leave blank.
   Specifying a major, excludes all other majors from enrolling.
   \( X \) Existing (as appears in current catalog)
   Check one: May  \( X \) May not  
   Major Code:  
   \( X \) Proposed (if changing)
   Check one: May  \( X \) May not  
   Major Code:  

14. Which of the following student classification(s) may enroll in this course?
   Will the classification restriction change?  \( X \) Yes  \( \Box \) No  
   If yes, fill out below, if no leave blank.
   \( X \) Existing (as appears in current catalog)
   \( X \) Proposed (if changing)
   Check all that apply:
   \( X \) Graduate (2) 19 + hours  
   \( X \) Graduate (1) 0-18 hours  
   Post  
   \( X \) Baccalaureate  
   \( X \) Senior  
   \( X \) Junior  
   \( X \) Sophomore  
   \( X \) Freshman  

15. Specify other restrictions for this course, if any.
   Will other restrictions change?  \( X \) Yes  \( \Box \) No  
   If yes, fill out below, if no leave blank.
   \( X \) Existing (as appears in current catalog)
   \( X \) Proposed (if changing)

16. Course objectives for this course: (Please refer to instructional objectives documents at:
   \( X \) https://spaces.uco.edu/display/aaccproposals/UCO+AACC-main+page#UCOAACC-main+page+faq+helpful-hints)
   If previously approved objectives will be used without any changes, check here  \( X \)
   As they appear in the course syllabus.
   \( X \) As they will appear in the updated syllabus.

17. Please provide a concise, yet comprehensive, statement that explains the specific reasons for requesting the change(s).
   Include any documentation or assessment information available supporting this specific request.
   \( X \) Thermodynamics is a 2000-level course elsewhere in the nation. After careful re-evaluation, the
Mechanical Engineering Curriculum Committee determined that the course content has always been that of a 2000-level course. Reducing the course level of "Thermodynamics" makes it consistent with the similar course offered in the other universities in the state and beyond. It will help students to transfer this course using course matrix without faculty intervention and paperwork. We removed MATH 3103 as the course co-requisite. We also add CHEM 1103 and CHEM 1223 and their associated labs to the prerequisites to help transfer students to take this course. A math course, MATH 2343, is added to make sure students will have necessary math backgrounds.

18. Clearly explain how the characteristics of this course meet or exceed those outlined in Course Level Characteristics. Complete this question only if requesting a course level change. (Copy and paste table from "Course Level Characteristics" document for the appropriate course level of proposed course. Document may be found on: https://spaces.uco.edu/display/aaccproposals/UCO+AACC-main+page#UCOAACC-mainpage-faq-helpful-hints.

### 2000 LEVEL COURSES

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<th>Course Level Characteristics</th>
<th>Please describe how this course meets this requirement.</th>
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<td>1. Students in these courses are assumed to have some previous college experience.</td>
<td>CHEM 1315 or CHEM 1103 and CHEM 1223 and their associated labs, as well as ENGR 2033, i.e. chemistry and engineering statics classes are prerequisite for this class. Students will have some previous college experience.</td>
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<td>2. These courses should be offered at a level of sophistication beyond 1000 level courses, both in terms of instruction and of expectations of the students.</td>
<td>The prerequisite of ENGR 2033, which has 2000-level math and physics prerequisites, should assure that students have a foundational background and this class offers a level of sophistication beyond 1000-level engineering courses.</td>
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<td>3. These courses should incorporate some form of library experience.</td>
<td>The thermodynamics class project and reports require students to seek out external references and cite them in the reports.</td>
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<td>4. Courses which are introductory to a discipline ordinarily should be offered at this level.</td>
<td>This course covers fundamentals of thermodynamics and laws of thermodynamics which are the basics for many mechanical engineering classes such as fluid mechanics (ENGR 3343), Heat Transfer (ENGR 4123) etc.</td>
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