Washington State University

MAJOR CURRICULAR CHANGE FORM - - COURSE
(Submit original signed form and TEN copies to the Registrar’s Office, zip 1035.)
See www.ronet.wsu.edu/ROPubs/ for this form.

*Submit an additional copy to the Faculty Senate Office, French Administration 338, zip 1038.

1. CHECK PROPOSED CHANGES. *(Please check all that apply.)*

| ☐ New course | ☐ Temporary course | ☐ Restored course |
| ☐ Variable credit | ☐ Repeat credit (cumulative maximum _____ hours) | |
| ☐ Increase credit (former credit _____) | ☐ Lecture-lab ratio (former ratio) | |
| ☐ Number (former number _____) | ☐ Prefix (former prefix) | |
| ☒ Crosslisting (between WSU departments) (Must have both departmental signatures.) | ☒ Cooperative listing (UI prefix and number ChE 527) taught by: WSU ☐ UI ☐ jointly taught ☒ | |
| ☐ Conjoint listing (400/500) | ☐ Drop service course | ☐ S, F grading |
| ☐ Request to meet Writing in the Major [M] requirement (Must have All-University Writing Committee Approval.) | | |
| ☐ Request to meet GER in _____ (Must have GenEd Committee Approval.) | ☐ Fulfills GER lab (L) requirement in _____ | |
| (Pharmacy & Veterinary Medicine courses only) ☐ Professional course | ☐ Graduate credit (for courses in professional programs) | |
| ☒ Other (please list) Remove the crosslisting of WSU’s ChE 527 from ME 527 as they are two distinct courses and maintain the cooperative listing for WSU/UI ChE 527. | | |

2. COMPLETE COURSE INFORMATION.

ChE / ME 527 Macroscopic Thermodynamics

course prefix course no. title

title abbreviation (12 digits including spaces) ____________________________

credit 3 lecture hrs lab hrs studio hrs prerequisite
per week per week per week per week

Description (20 words or less) Advanced thermodynamics from macroscopic viewpoint; basic postulates, equilibrium, stability, property relations; application to thermal-fluid and solid mechanics; irreversible thermodynamics. (Crosslisted course offered as ME-527, ChE-527). Cooperatively taught jointly by WSU and UI (ME-527 ChE 527).

Instructor: Various Phone number: 335-8215 Effective term/year Spring 2012

| James Petersen | 335-8215 | jnp@wsu.edu |
| Contact Person | Contact Phone No. | Contact email |
3. **Give reasons for each request marked above.** *(Attach additional paper.)*

Remove the crosslisting between WSU ChE 527 and WSU ME 527 as they are two distinct and separate courses but maintain the conjoined listing between WSU ChE 527 and UI ChE 527 and maintain the conjoined listing between WSU ME 527 and UI ME 527. There is no crosslisting between UI ChE 527 and UI ME 527 as they are two distinct and separate courses.

4. **Attach detailed course outline and/or additional material.** *(See reverse side.)*

5. **Sign and date approvals.**

   Chair/date  
   Dean/date  
   General Education Com/date

   All-University Writing Com/date  
   Catalog Subcommittee/date  
   Academic Affairs Com/date

   Graduate Studies Com/date  
   Senate/date
**Instructor:** D. Eric Aston  
**Office:** BEL 301  
**Phone:** 885-6953  
**E-mail:** aston@uidaho.edu

**Meetings:**  
TTTh 2:00-3:15 PM, 3 Credits  
**Classroom:** JEB 122 @ UI

**Office hrs:** 3:30-5 PM M-F, by appointment or e-mail.  
**Labs:** BEL 339, 341, 218, McClure 109

**Text:**  

**Catalog course description:** Thermodynamic laws for design and optimization of thermodynamic systems, equations of state, properties of ideal and real fluids and fluid mixtures, stability, phase equilibrium, chemical [reaction] equilibrium, applications of thermodynamic principles.

**Prerequisites:** At least one upper-division undergraduate course in thermodynamics from standard curricula in Engineering, Chemistry and Physics degrees from professional, accredited, or equivalent programs; a BS in any of these or closely-related fields, or instructor permission.

**UI/WSU Students:** Please note the cooperative courses begin early for UI students (Tuesday, January 10 for this course) and end early (Thursday, May 3 for this course). The Final Exam time will be scheduled NOT to conflict with any other courses on either campus during the last week of the WSU Spring Semester.

**Grading:** University standard—A ≥ 90%, B ≥ 80%, C ≥ 70%, D ≥ 60%; exam weighting factors—midterm = 25% each, final exam = 50%; homework assignments will be reviewed but not graded.

**Attendance:** Recommended but not mandatory. Do not come to class late. Prior notification of absence is appreciated but not required.

<table>
<thead>
<tr>
<th>Date</th>
<th>Week</th>
<th>Tentative scheduling of topics</th>
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<tbody>
<tr>
<td>1/10</td>
<td>1</td>
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<td>5</td>
<td>Fugacities in Gas Mixtures (Ch. 5)</td>
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<td>2/14</td>
<td>6</td>
<td>Midterm 1</td>
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<td>Fugacities in Liquid Mixtures (Ch. 6)</td>
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<td>Liquid Mixtures and Excess Functions (Ch. 6)</td>
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<td>2/28</td>
<td>8</td>
<td>Liquid Mixtures: Theories of Solutions (Ch. 7)</td>
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<td>Gas-Liquid Equilibrium (Ch. 10)</td>
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<td>Spring Recess 3/10-3/18</td>
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<td>Gas-Liquid Equilibrium (Ch. 10), cont’d</td>
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<td>Solid-Liquid Equilibrium (Ch 11)</td>
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<td>Midterm 2</td>
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<td>High Pressure Equilibria (Ch. 12)</td>
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<td>Electrolyte Solutions (Ch. 9)</td>
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<td>4/24</td>
<td>15</td>
<td>Statistical Mechanics (Appendix II)</td>
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<td>5/01</td>
<td>16</td>
<td>Stat Mech. cont’d</td>
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<tr>
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<td>Final Exam (2 hrs) – TBD due to WSU scheduling</td>
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<tr>
<td>5/08</td>
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Disability Resource Center Reasonable Accommodations Statement:
- I am committed to providing assistance to help you be successful in this course. Reasonable accommodations are available for students with a documented disability.
- If you have a disability and may need accommodations to fully participate in this class, please visit the Disability Resource Center.
- All accommodations MUST be approved through the Disability Resource Center - Admin Annex Bldg, Room 205. Stop by or call (509) 335-3417 to make an appointment with a disability specialist.

Academic Integrity:
- All members of the University community share responsibility for maintaining and promoting the principles of truth and academic honesty.
- The Office of Student Conduct has a policy defining academic dishonesty and the procedures to follow if dishonesty occurs. This information can be found at www.studentconduct.wsu.edu.
- Cheating or plagiarism is any form will not be tolerated. Cheating includes, but is not limited to, copying work or allowing your work to be copied. Plagiarism is the appropriation of another person’s ideas, processes, results, or words without giving appropriate credit. This includes appropriation of ideas obtained through confidential review of others’ research proposals, manuscripts and other works.
- If academic dishonesty has occurred on any homework, or other assignment, the incident will be reported to the Office of Student Conduct and the student(s) involved will receive no credit (a score of zero) for that particular material.
- A second incident of cheating may result in dismissal from the university.

Safety:
- Safety is a shared responsibility in which each member of the University community has a personal role.
- Each of us should know the appropriate actions to take when an emergency arises.
- For emergency preparedness, students are strongly encouraged to visit http://oem.wsu.edu/emergencies.
- Everyone is also encouraged to visit the WSU ALERT site http://alert.wsu.edu for information about emergencies & the communication resources WSU will use during emergencies.
Thanks Jim for dealing with this.

Marc and Lisa,

I think this should fulfill the requirement to de-crosslist the two courses.

Charlotte

> Charlotte,
> 
> Thanks for all your work in coordinating this. I've attached a
> syllabus that I believe will meet all the requirements. Please let me
> know if you need additional information.
> 
> --Jim
> 
> -----Original Message-----
> From: omoto@mail.wsu.edu [mailto:omoto@mail.wsu.edu]
> Sent: Tuesday, March 27, 2012 9:39 PM
> To: Petersen, James N
> Cc: Evans, Marc A.; Devine, Lisa
> Subject: Re: FW: ChE & ME 527
> 
> Jim,
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> Thank you for your prompt response to my request. Please attach the
> statements to the syllabus and send it to the Chair, Marc Evans, and
> Assistant Registrar, Lisa Devine, who I copy so that they can act on
> it this Thursday.
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> >> Charlotte, if I add the disability statement, academic integrity, and
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I hope this will be sufficient. I inserted the exact UI Catalog course description with a single word addition in [ ] to indicate "chemical [reaction] equilibrium," which is the way it really should appear to be precise. But we'll probably never change our course description, since it is crosslisted with WSU and that becomes too onerous to worry about.

-D. Eric Aston, Assoc. Prof.
BEL 301, Chemical & Materials Engineering University of Idaho Moscow, ID
83844-1021
208-885-6953
http://www.uidaho.edu/engr/cme/faculty/ericaston

----- Original Message -----
From: "Petersen, James N" <in_petersen@wsu.edu>
To: <aston@uidaho.edu>
Cc: "Omoto, Charlotte K" <omoto@wsu.edu>
Sent: Tuesday, March 27, 2012 1:12 PM
Subject: FW: ChE & ME 527

Eric,

As you know, we're trying to fix the problems associated with cross-listing ME 527 and ChE 527. To do this, we need a syllabus that contains all the elements listed by Dr. Omoto below. I can add the attendance policy, disability statement, academic integrity, and campus safety statements, but I don't know your policies on point distribution, grading scale, or your attendance policy. Could you add those to your syllabus, and send it back as a word document?

Thanks so much. I am very sorry for the inconvenience.

--Jim

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Thank you Jim.

Although they are minor items, for a complete syllabus, we need the point distribution, grading scale, attendance policy, disability statement, academic integrity, and campus safety statements.

I'm sorry to give you this hassle but it would be required by the
Catalog subcommittee before they pass it onto Graduate Studies.

Charlotte

Charlotte,

Here is the syllabus for the ChE 527 course that is currently being taught by the UI.

--Jim

Dear Jim and David,

The catalog subcommittee indicated that if ChE 527 and ME 527 are to be separate courses, we need the syllabi for the two courses. I note that ChE 527 has changed the title to Chemical Thermodynamics and description to "Thermodynamic laws for design and optimization of thermodynamic systems, equations of state, properties of ideal and real fluids and fluid mixtures, stability, phase equilibrium, chemical equilibrium, applications of thermodynamic principles".

The committee meets on Thursdays at 1pm. If you can forward the two syllabi to me and to Marc Evans, Chair of Catalog Subcommittee and Lisa Devine of the Registrar's office, who I copy, we should be able to move forward with the proposal to de-crosslist.

I'm sorry for the hassle but hope that it would not be too difficult to come up with the syllabi for the two courses.

Thank you for your attention to our request.

Charlotte

Charlotte K. Omoto
Professor
School of Biological Sciences
113 Heald Hall
Washington State University
Pullman, WA 99164-4236

phone (509)335-5591
fax (509)335-3184
Charlotte,

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fax (509)335-3184
ME hasn't changed. The entire reason for this change is to accommodate ChE's changed thermodynamics course. So why do you need the ME syllabus, as it's the same as it was before?

Dave

-----Original Message-----
From: Charlotte Omoto [mailto:omoto@wsu.edu]
Sent: Tuesday, March 27, 2012 11:58 AM
To: Petersen, James N; Bahr, David
Cc: Evans, Marc A.; Devine, Lisa
Subject: ChE & ME 527

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fax (509)335-3184
Hi Cats,

I will forward e-mail from Dave Bahr of ME that is the lead department in the currently cross-listed course.

I wonder if we can forego a syllabus if

Ch E 527 changes the title to Chemical Thermodynamics with the following description "Thermodynamic laws for design and optimization of thermodynamic systems, equations of state, properties of ideal and real fluids and fluid mixtures, stability, phase equilibrium, chemical equilibrium, applications of thermodynamic principles"

While M E 527 retains the same title and description.

Certainly I would think M E 527 should not have to submit the syllabus because they are keeping things the same and just dropping cross-listing with Ch E 527. So my question is do we need a new syllabus from Ch E 527 or do we need both for comparison?

Charlotte
Devine, Lisa

I'll see if I can get the point distribution, grading scale, attendance policy information from the instructor. I can add the disability statement, academic integrity, and campus safety statements.

--Jim

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Instructor: D. Eric Aston  
Office: BEL 301  
Phone: 885-6953  
E-mail: aston@uidaho.edu

Meetings:  
TTh 2:00-3:15 PM, 3 Credits  
Classroom: TBD @ UI

Office hrs:  
3:30-5 PM M-F, by appointment or e-mail.  
Labs: BEL 339, 341, 218, McClure 109

Text:  

Course description:  
Thermodynamic laws of systems, equations of state, properties of ideal and real fluids and fluid mixtures, stability, phase equilibria, chemical reaction equilibria, applications of thermodynamic principles.

Prerequisites: At least one upper-division undergraduate course in thermodynamics from standard curricula in Engineering, Chemistry and Physics degrees from professional, accredited, or equivalent programs; a BS in any of these or closely-related fields, or instructor permission.

UI/WSU Students: Please note the cooperative courses begin early for UI students (Tuesday, January 10 for this course) and end early (Thursday, May 3 for this course). The Final Exam time will be scheduled NOT to conflict with any other courses on either campus during the last week of the WSU Spring Semester.

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<td>Fugacities in Gas Mixtures (Ch. 5)</td>
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<td>Fugacities in Liquid Mixtures (Ch. 6)</td>
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<td>Liquid Mixtures: Theories of Solutions (Ch. 7)</td>
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