

MASTER SYLLABUS

Course Discipline Code & No: UAT270 Title: Properties and Characteristics of Metals Effective Term SS08
 Division Code: VCT Department Code: UASD Org #: 28200
 Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.
 New course approval Reactivation of inactive course
 Three-year syllabus review/Assessment report Inactivation (Submit this page only.)
 Course change

Change information: Note all changes that are being made. Form applies only to changes noted.

<input type="checkbox"/> Consultation with all departments affected by this course is required.	<input type="checkbox"/> Total Contact Hours (total contact hours were: _____)
<input type="checkbox"/> Course discipline code & number (was _____)* *Must submit inactivation form for previous course.	<input type="checkbox"/> Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
<input type="checkbox"/> Course title (was _____)	<input type="checkbox"/> Pre-requisite, co-requisite, or enrollment restrictions
<input type="checkbox"/> Course description	<input type="checkbox"/> Change in Grading Method
<input type="checkbox"/> Course objectives (minor changes)	<input type="checkbox"/> Outcomes/Assessment
<input type="checkbox"/> Credit hours (credits were: _____)	<input type="checkbox"/> Objectives/Evaluation
	<input type="checkbox"/> Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.
 This is an existing course from the United Association Instructor Training Program that is offered through the UA Regional Training System throughout the year. This proposal is to change the current UA course number "166" to "UAT270" to reflect the new WCC identifier for the course. Also, this new identifier will be used on student registration forms and course calendars.

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 consulted

Print: _____ Faculty/Preparer Signature _____ Date: _____
 Print: Dan Welch Department Chair Signature: D. Welch Date: 2/12/08

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No _____
 Dean's/Administrator's Signature Date

Curriculum Committee Review
 Recommendation Tabled Yes No _____
 Curriculum Committee Chair's Signature Date: 2/13/08

Vice President for Instruction Approval

 Vice President's Signature Date: 2/13/08

Approval Yes No Conditional

Do not write in shaded area.
 Log File 1241083 ✓ Ecopy Banner 2/21 C&A Database 2/21 C&A Log File 2/21 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.

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

Course: UAT270	Course title: Properties and Characteristics of Metals
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Credit hours: <u>1.5</u> If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%"> <tr> <td></td> <td style="text-align:center"><u>Student</u></td> <td style="text-align:center"><u>Instructor</u></td> </tr> <tr> <td>Lecture:</td> <td style="text-align:center"><u>12.5</u></td> <td style="text-align:center">___</td> </tr> <tr> <td>Lab:</td> <td style="text-align:center"><u>10</u></td> <td style="text-align:center">___</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>22.5</u></td> <td style="text-align:center">___</td> </tr> </table>		<u>Student</u>	<u>Instructor</u>	Lecture:	<u>12.5</u>	___	Lab:	<u>10</u>	___	Clinical:	___	___	Practicum:	___	___	Other:	___	___	Totals:	<u>22.5</u>	___	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input checked="" type="checkbox"/> No - lectures, labs, or clinicals are offered in the same section	Grading options: <input type="checkbox"/> P/NP (limited to clinical & practica) <input type="checkbox"/> S/U (for courses numbered below 100) <input checked="" type="checkbox"/> Letter grades
	<u>Student</u>	<u>Instructor</u>																						
Lecture:	<u>12.5</u>	___																						
Lab:	<u>10</u>	___																						
Clinical:	___	___																						
Practicum:	___	___																						
Other:	___	___																						
Totals:	<u>22.5</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 <small>(Can be taken together)</small>	Corequisites <small>Must be enrolled in this class also during the same semester)</small>
_____	___	___	___	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	___	___	___	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	___	___	___	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	___	___	___	<input type="checkbox"/>	_____

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

Course	Grade	Test	Min. Score
_____	___	___	___
<input type="checkbox"/> and <input type="checkbox"/> or _____	___	___	___
<input type="checkbox"/> and <input type="checkbox"/> 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.

- | | |
|--|---|
| <input type="checkbox"/> E.M.U. as _____ | <input type="checkbox"/> _____ as _____ |
| <input type="checkbox"/> U of M as _____ | <input type="checkbox"/> _____ as _____ |
| <input type="checkbox"/> _____ as _____ | <input type="checkbox"/> _____ as _____ |

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<p>Course UAT270</p>	<p>Course title Properties and Characteristics of Metals</p>	
<p>Course description State the purpose and content of the course. Please limit to <u>500</u> characters.</p>	<p>This course covers methods of teaching about the properties and characteristics of metals commonly used in the pipe trades. Emphasis will be given to explaining the nature of ferrous and non-ferrous metals in both their raw and manufactured form, the physical and mechanical properties of common metals, and the processes used to create desired changes. Limited to United Association program participants.</p>	
<p>Course outcomes List skills and knowledge students will have after taking the course.</p> <p>Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.</p>	<p>Outcomes (applicable in all sections)</p> <p>1) Explain to apprentices and journey-people the central concepts and skills of the properties and characteristics of metals.</p> <p>2) Demonstrate to apprentices and journey-people the proper maintenance and repair procedures related to the properties and characteristics of metals.</p> <p>3) Utilize approved industry and UA course/training materials to teach the properties and characteristics of metals.</p>	<p>Assessment Methods for determining course effectiveness</p> <hr/> <p>Survey of UA training coordinators/supervisors.</p> <p>Survey of UA training coordinators/supervisors.</p> <p>Survey of UA training coordinators/supervisors.</p>
<p>Course Objectives Indicate the objectives that support the course outcomes given above.</p> <p>Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.</p>	<p>Objectives (applicable in all sections)</p> <hr/> <p>Outcome 1:</p> <ul style="list-style-type: none"> - Identify and define common physical and mechanical properties of metals. - Identify the processes used to produce steel and the effects of alloying elements. <p>Outcome 2:</p> <ul style="list-style-type: none"> - Recognize the effects of heating and cooling metals at various temperatures and rates. - Distinguish the metallurgical characteristics of soldering and brazing processes and alloys. <p>Outcome 3:</p> <ul style="list-style-type: none"> - Demonstrate appropriate use and knowledge of course materials. 	<p>Evaluation Methods for determining level of student performance of objectives</p> <hr/> <p>Exam consisting of multiple choice, true/false, fill in the blank, and short answer questions.</p> <p>Exam consisting of multiple choice, true/false, fill in the blank, and short answer questions.</p> <p>Presentation and demonstration of learned course materials.</p> <p>Presentation and demonstration of learned course materials.</p> <p>Presentation and demonstration of learned course materials.</p>

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

Student Materials:

List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software	All course materials will be provided.	Estimated costs \$
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Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level <u>only</u> if the specified equipment is needed for <u>all</u> sections of a course. <input type="checkbox"/> Level I classroom Permanent screen & overhead projector <input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR <input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> Off-Campus Sites <input type="checkbox"/> Testing Center <input type="checkbox"/> Computer workstations/lab <input type="checkbox"/> ITV <input type="checkbox"/> TV/VCR <input type="checkbox"/> Data projector/computer <input type="checkbox"/> Other _____
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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
Explain to apprentices and journey-people the central concepts and skills of the properties and characteristics of metals.	Survey of UA training coordinators/supervisors.	Spring 2009 for students enrolled in Summer 2008, and every three years thereafter.	All	75% of all students through random sampling who teach the topic the subsequent year, and minimum of 7 students.
Demonstrate to apprentices and journey-people the proper maintenance and repair procedures related to	Survey of UA training coordinators/supervisors.	Spring 2009 for students enrolled in Summer 2008, and every three years thereafter.	All	75% of all students through random sampling who teach the topic the subsequent year, and minimum of 7

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<p>teaching the properties and characteristics of metals.</p> <p>Utilize approved industry and UA course/training materials to teach the properties and characteristics of metals.</p>	<p>Survey of UA training coordinators/supervisors.</p>	<p>Spring 2009 for students enrolled in Summer 2008, and every three years thereafter.</p>	<p>All</p>	<p>students</p> <p>75% of all students through random sampling who teach the topic the subsequent year, and minimum of 7 students</p>
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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.

Students' training activities will be scored and evaluated on the survey questionnaires (see attached) of each of the three learning outcomes.

2. Indicate the standard of success to be used for this assessment.

Based on the number of students who teach the learned materials in the subsequent year, 75% of them will score an average of satisfactorily or above on the survey questionnaires to be completed by UA training coordinators/supervisors.

3. Indicate who will score and analyze the data (data must be blind-scored).

The UA Program Administrator will coordinate with UA training coordinators and the training department about the implementation of the assessment plan and the collection of data from UAT faculty, and will discuss the results with UAT faculty.

4. Explain the process for using assessment data to improve the course.

The assessment will be shared with the appropriate UA training coordinators, training department, and UAT faculty. The UA Program Administrator will solicit suggestions for improving the results and will work with UA training coordinators, the training department, and UAT faculty to make needed changes to improve course content and student performance.