

MASTER SYLLABUS

Course Discipline Code & No: UAE156 Title: Air and Water Balancing and Motor Alignment Effective Term SS 2009
 Division Code: VCT Department Code: UA Org #: 28310
 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.

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: Dan Welch Faculty/Preparer Signature D. Welch Date: 2/2/09
 Print: _____ Department Chair Signature _____ Date: _____

Division Review by Dean
 Request for conditional approval
 Recommendation Yes No D. Welch Date: 2/2/09
 Dean's/Administrator's Signature

Curriculum Committee Review
 Recommendation Tabled Yes No Quaverney Date: 3/18/09
 Curriculum Committee Chair's Signature

Vice President for Instruction Approval
Roger M. Palay Date: 3/19/09
 Vice President's Signature
 Approval Yes No Conditional

Do not write in shaded area.
 Log File 2/18/09 / Ecopy Banner 3/19 C&A Database 3/19 C&A Log File 3/19 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.

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

Course: <u>UAE156</u>	Course title: <u>Air and Water Balancing and Motor Alignment</u>
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Credit hours: <u>3</u> If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center; border-bottom: 1px solid black;">Student</td> <td style="text-align: center; border-bottom: 1px solid black;">Instructor</td> </tr> <tr> <td>Lecture:</td> <td style="text-align: center;">45</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Lab:</td> <td style="text-align: center;">—</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;">45</td> <td style="text-align: center;">—</td> </tr> </table>		Student	Instructor	Lecture:	45	—	Lab:	—	—	Clinical:	—	—	Practicum:	—	—	Other:	—	—	Totals:	45	—	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input 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
	Student	Instructor																						
Lecture:	45	—																						
Lab:	—	—																						
Clinical:	—	—																						
Practicum:	—	—																						
Other:	—	—																						
Totals:	45	—																						

Prerequisites. Select one:

<input checked="" type="checkbox"/> College-level Reading & Writing	<input type="checkbox"/> Reduced Reading/Writing Scores <small>(Add information at Level I prerequisite)</small>	<input type="checkbox"/> No Basic Skills Prerequisite <small>(College-level Reading and Writing is not required.)</small>
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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 a Iso during the same semester</small>
<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.)

<input type="checkbox"/> and <input type="checkbox"/> or Consent required	<input type="checkbox"/> and <input checked="" type="checkbox"/> or Admission to program required Program: <u>UA apprenticeship</u>	<input type="checkbox"/> and <input type="checkbox"/> or Other (please specify): _____
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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 _____

Course <u>UAE156</u>	Course title: <u>Air and Water Balancing and Motor Alignment</u>
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<p>Course description State the purpose and content of the course. Please limit to <u>500</u> characters.</p>	<p>This course covers principals of balancing forced air systems, balancing flow in hydronic loops, pumps, principles of alignment, and vibration elimination.</p> <p>This course is taught at United Association (UA) Training Centers throughout the United States and Canada. Enrollment is limited to apprentices accepted in to a UA training program.</p>
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<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>Assessment Methods for determining course effectiveness</p>
	<p>After successful completion of this course the student will be able to:</p> <ul style="list-style-type: none"> • Calibrate building environment components after installation • Measure and adjust building environment components after initial operation 	<p>This course is assessed externally by the local's Joint Apprenticeship Training Committee (JATC), consisting of industry representatives and UA members. The local receives feedback on needed technical updates and apprentice skill performance.</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>	<p>Evaluation Methods for determining level of student performance of objectives</p>
	<p>Objectives and evaluation methods follow the International Pipe Trades Curriculum Outline issued by the UA Training Department.</p>	

List all new resources needed for course, including library materials.
No new resources, courses are taught at existing UA local training schools.

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Student Materials:

<p>List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software</p>	<p style="text-align: right;">UAE156</p> <p>UA local training schools provide all the necessary books and materials for the students.</p>	<p>Estimated costs \$ 0</p>
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Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level only if the specified equipment is needed for all 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 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 checked="" type="checkbox"/> Other <u>Taught at UA Local schools</u>
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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
<ul style="list-style-type: none"> • Calibrate building environment components after installation • Measure and adjust building environment components after initial operation 	<p>Contractors (employer) provide paper feedback forms for apprentice skill performance reviews.</p> <p>JATC contractor members provide specifications detailing technical updates.</p>	<p>WCC will prepare a summary report on assessment activities in Winter 2010 and every three years thereafter.</p>	<p>All</p>	<p>All</p>

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.

Individual locals use apprentice feedback forms filled out by the employing contractor.

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

The standard of success is set by the local JATC.

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

The data is analyzed by the JATC as a committee.

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

Results are initially shared with the training coordinator for the local. The training coordinator then works with appropriate instructor staff to make needed changes.