MASTER SYLLABUS

WASHTENAW COMMUNITY COLLEGE

Course Discipline Code & No: UAR162 **Title:** Basic Drawing and Intro. to Automatic Sprinklers **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
- ☐ Three-year syllabus review/Assessment report
- ☐ Course change
- ☐ Reactivation of inactive course
- ☐ Inactivation (Submit this page only.)

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

- ☐ Consultation with all departments affected by this course is required.
- ☐ Course discipline code & number (was _____)*
  *Must submit inactivation form for previous course.
- ☐ Course title (was _____)
- ☐ Course description
- ☐ Course objectives (minor changes)
- ☐ Credit hours (credits were: _____)
- ☐ Total Contact Hours (total contact hours were: _____)
- ☐ Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
- ☐ Pre-requisite, co-requisite, or enrollment restrictions
- ☐ Change in Grading Method
- ☐ Outcomes/Assessment
- ☐ Objectives/Evaluation
- ☐ 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 (Dean's/Administrator's Signature) 2/2/09 (Date)

Curriculum Committee Review

Recommendation _____

☐ Tabled ☒ Yes ☐ No Lisa Veasey (Curriculum Committee Chair's Signature) 3/18/09 (Date)

Vice President for Instruction Approval

Roger M. Paley. (Vice President's Signature) 3/19/09 (Date)

Approval ☒ Yes ☐ No ☐ Conditional

Do not write in shaded area.

Log File 2/18/09 sj Ecopy ☐ Banner 3/20 C&A Database 3/20 C&A Log File 3/20 sj Basic skills ☐ Contact fee ☐

fr 2009

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: UAR162	**Course title:** Basic Drawing and Intro. to Automatic Sprinklers

Credit hours: 3

If variable credit, give range:

_____ to _____ credits

Contact hours per semester:

	Student	Instructor
Lecture:	45	
Lab:		
Clinical:		
Practicum:		
Other:		
Totals:	45	

Are lectures, labs, or clinicals offered as separate sections?

☐ Yes - lectures, labs, or clinicals are offered in separate sections

☐ No - lectures, labs, or clinicals are offered in the same section

Grading options:

☐ P/NP (limited to clinical & practica)

☐ S/U (for courses numbered below 100)

☒ Letter grades

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 (Can be taken together)	Corequisites (Must be enrolled in this class also during the same semester)
					☐	
☐ and ☐ or					☐	
☐ and ☐ or					☐	
☐ and ☐ or					☐	

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

	Course	Grade	Test	Min. Score
☐ and ☐ or				
☐ and ☐ or				

Enrollment restrictions (In addition to prerequisites, if applicable.)

☐ and ☐ or Consent required

☐ and ☒ or Admission to program required

Program: UA apprenticeship

☐ and ☐ or Other (please specify): _____

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.

☐ E.M.U. as _____

☐ U of M as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

☐ _____ as _____

Course UAR162	Course title: Basic Drawing and Intro. to Automatic Sprinklers

Course description State the purpose and content of the course. Please limit to 500 characters.	Basic drawing covers preparation of working drawings including orthographic projection, dimensioning, illustrating pipe threads, section views and isometric drawings. Introduction to Automatic Sprinklers includes the fundamentals of sprinkler protection and the standards governing systems. Topics also include the hazard categories specified in NFPA 13, wet and dry systems, flushing sprinkler systems, and the fundamentals of inspecting and testing systems. 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.

Course outcomes List skills and knowledge students will have after taking the course. **Assessment method** Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	**Outcomes** (applicable in all sections)	**Assessment** Methods for determining course effectiveness
	After successful completion of this course, the student will be able to: • Explain working drawings • Define orthographic projection and how it relates to objects being drawn • Identify views in multi-view drawings • Prepare and read one- and two-view drawings • Place dimensions within a drawing • Use and interpret various drawing scales • Call out of threads on a drawing • Identify types of pipe threads • Create section views of a drawing, and use section lines to indicate materials • Create basic sketches • Produce isometric sketches and drawings • Explain the history of sprinkler systems • Describe the fundamentals of sprinkler system installation • Identify causes of sprinkler system failures	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.

Course Objectives Indicate the objectives that support the course outcomes given above. **Course Evaluations** Indicate how instructors will determine the degree to which each objective is met for each student.	**Objectives** (applicable in all sections) Objectives and evaluation methods follow the International Pipe Trades Curriculum Outline issued by the UA Training Department.	**Evaluation** Methods for determining level of student performance of objectives

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

Student Materials:

List examples of types Texts Supplemental reading Supplies Uniforms Equipment Tools Software	UA local training schools provide all the necessary books and materials for the students.	**Estimated costs** $ 0

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.

- ☐ Level I classroom
  Permanent screen & overhead projector
- ☐ Level II classroom
  Level I equipment plus TV/VCR
- ☐ Level III classroom
  Level II equipment plus data projector, computer, faculty workstation

- ☐ Off-Campus Sites
- ☐ Testing Center
- ☐ Computer workstations/lab
- ☐ ITV
- ☐ TV/VCR
- ☐ Data projector/computer
- ☒ Other Taught at UA Local schools

UAR162

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 working drawings • Define orthographic projection and how it relates to objects being drawn • Identify views in multi-view drawings • Prepare and read one- and two-view drawings • Place dimensions within a drawing • Use and interpret various drawing scales • Call out of threads on a drawing • Identify types of pipe threads • Create section views of a drawing, and use section lines to indicate materials • Create basic sketches • Produce isometric sketches and drawings • Explain the history of sprinkler systems	Contractors (employer) provide paper feedback forms for apprentice skill performance reviews. JATC contractor members provide specifications detailing technical updates.	WCC will prepare a summary report on assessment activities in Winter 2011 and every three years thereafter.	All	All

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