

**Ohio Articulation Number (OAN)  
Course Submission Form  
2005-2006**



College/University The University of Akron

Course(s) Submitted (Title & Course #) 3150:152 for  
Ohio Articulation Number OSC008

Date 1-25-06 Course 2 of a 2 Course OAN mapping.

Name and title of individual submitting on behalf of the college/university

Name Dr. Michael J. Taschner Title Interim Dept. Chair, Chemistry

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Credit Hours 1 qtr \_\_\_\_\_ sem X

Lecture Hours \_\_\_\_\_

Laboratory Hours 1 (if applicable)

Pre-Requisites(s) Course work (if applicable)

Principles of Chemistry I Lecture – corequisites

Placement Score (if applicable)

(Name of test) \_\_\_\_\_

(Domain) \_\_\_\_\_ (Score) \_\_\_\_\_

Catalog/Course Description (Includes Course Title and Course #)

Laboratory course applying principles of thermodynamics, chemical analysis and laboratory practice.

Texts/Outside Readings/Ancillary Materials

Chem. Dept., *Principles of Chemistry Laboratory 152* (required)

### Course Objectives and/or Plan of Work

Laboratory course applying principles of thermodynamics, chemical analysis and laboratory practice.

### Description of Assessment and/or Evaluation of Student Learning

Eleven 20-point experiments will be carried out (5-point quiz + 15-point lab for Experiments 2-11). Data and calculations sheets must be turned in **by the end** of each lab session.

### Master Syllabi and Working Syllabi (if both are used)

Included below

### Additional Documentation

## PRINCIPLES of CHEMISTRY LABORATORY

Dr. Donovan

KNCL-403 (330) 972-6064

wdonovan@uakron.edu

**3150:152**

Spring, 2006

KNCL-304/306

**DESCRIPTION:** Pre/Corequisite: 151, Laboratory course applying principles of thermodynamics, chemical analysis and laboratory practice.

**MANUAL:** Chem. Dept., *Principles of Chemistry Laboratory 152* (required)

### SCHEDULE:

WEEK OF	EXPT.	SUBJECT	QUIZ
01/16		Check-in and safety instruction (Monday sections: 01/23)	
01/23	1	Laboratory Measurements	
01/30	2	Densities	
02/06	3	Paper Chromatography	1
02/13	4	Separation of a Mixture	2
02/20		<b>NO LAB</b>	
02/27	5	Investigation of Some Nonmetals	3
03/06	6	Properties of Hydrates	4

03/13	7	Titrimetric Determination of Equivalent Mass	5
03/20	9	Calorimetry	6
03/27		<b>NO LAB</b>	
04/03	11	Investigation of Periodic Trends of Elements	8
04/10	8	Molecular Mass of a Volatile Liquid	10
04/17	10	Molecular Structure	7
04/24		Check-out	9

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NOTE: The actual order of experiments may vary. Material may be added, deleted, or rescheduled as class need requires or time permits.

**SAFETY.** Eyes, legs, and feet **must** have protective clothing. Consistent with the provisions of *Freshman Laboratory Policies, Procedures and Rules*, any clothing that exposes the legs and feet are unacceptable attire for this course. **REGULATION SAFETY GOGGLES MUST BE WORN IN THE LABORATORY:**

**SCHEDULING.** If the University closes on the day a class is scheduled, the experiment may be rescheduled for the next regular class period. Failure to complete an experiment will result in a zero (0) grade. **NO PROVISION CAN BE MADE FOR MAKE-UP SESSIONS.**

**EXPERIMENTS.** Eleven 20-point experiments will be carried out (5-point quiz + 15-point lab for Experiments 2-11). Data and calculations sheets must be turned in **by the end** of each lab session. The lowest score will be dropped.

**GRADING.** Grades are based on point scores calculated as follows:

$$\begin{array}{r} \text{Experiments (10 @ 20):} \quad \underline{\quad 200 \quad} \\ \text{Maximum point total:} \quad 200 \end{array}$$

Letter grades reflect total point scores as percents of the maximum point total:

A:	91-100	C:	72-74
A-:	88-90	C-:	69-71
B+:	85-87	D+:	63-68
B:	81-84	D:	56-62
B-:	78-80	D-:	50-55
C+:	75-77	F:	below 50

**STUDENT PARTICIPATION.** Each student is expected to attend all scheduled laboratory sessions. A student may add/drop this course in accordance with the procedures described in the current Academic Catalog. **NON-ATTENDANCE DOES NOT CONSTITUTE OFFICIAL WITHDRAWAL.**

Any student involved in academic dishonesty such as plagiarism or similar misconduct will automatically receive a grade of F. In such instances, further penalties, including probation and dismissal, will be administered in accordance with the provisions of the *Student Disciplinary Procedures.*

**OFFICE HOURS.** Students should schedule consultation with their instructor on an as-needed basis.

OBR Use	Action
Approved	
Additional Information Requested	
Rejected	
Date	