

OBR	
Received(time)	2:30 PM
Date	2/8/06

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



College/University Kent State University

Course(s) Submitted(Title & Course #) Organic Chemistry Lab I – CHEM30475 for
Ohio Articulation Number OSC010

Date 01/27/06

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

Name Gayle Ormiston Title Associate Provost for Faculty Affairs and Curriculum

Address P.O. Box 5190
Kent OH 44242-0001

E-mail gormisto@kent.edu

Phone 330.672.2220

Fax 330.672.2644

Credit Hours 1 qtr _____ sem 1

Lecture Hours _____

Laboratory Hours 1 (if applicable)

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

CHEM10063, pre- or co-req CHEM20481 or CHEM30481

Placement Score (if applicable)

(Name of test)

(Domain) _____ (Score) _____

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

Organic Chemistry I Lab CHEM 30475 (1 cr h). Practical experience in organic laboratory techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds,

introduction to organic reactions.

Texts/Outside Readings/Ancillary Materials

"Experimental Organic Chemistry" by L.M. Harwood, C.J. Moody and J.M. Percy

Course Objectives and/or Plan of Work

Check-in, safety talk (1 day)
Characterization of organic compounds using IR spectroscopy (1 day)
Purification of organic solids by recrystallization; determination of melting points (2 days)
Purification of organic liquids by distillation (1 day)
Separation of organic mixtures via liquid-liquid extraction (2 days)
Chromatographic separation of organic compounds - TLC, column chromatography, gas chromatography (3 days)
Regioselectivity in E1 elimination reactions of alcohols (gas chromatography) (1 day)
Nucleophilic substitution: study of SN1 and SN2 reactions (1 day)
Macroscale synthesis of 1-bromobutane (1 day)
Final lab practical (1 day)

(*Each lab session is 3 h in duration.)

Description of Assessment and/or Evaluation of Student Learning

Weekly quizzes, several homework assignments, maintenance of a laboratory notebook, weekly lab reports, final examination.

Master Syllabi and Working Syllabi (if both are used)

Check-in, safety talk
Characterization of organic compounds using IR spectroscopy
Purification of organic solids by recrystallization; determination of melting points
Purification of organic liquids by distillation
Separation of organic mixtures via liquid-liquid extraction
Chromatographic separation of organic compounds - TLC, column chromatography, gas chromatography
Regioselectivity in E1 elimination reactions of alcohols (gas chromatography)
Nucleophilic substitution: study of SN1 and SN2 reactions
Macroscale synthesis of 1-bromobutane
Final lab practical
Check-out

(laboratory experiments will be rotated on a semesterly basis with other reserve experiments)

(*This course will be offered in this format for the first time in Fall 2006; hence, a master syllabus rather than a working syllabus is provided.)

Additional Documentation

--

OBR Use	Action
Approved	
Additional Information Requested	
Rejected	
Date	

Ohio Articulation Number Form Directions

This form is each institution's OAN course information. This information will be submitted to the Ohio Board of Regents, as part of the faculty review process for each OAN within a given TAG. This document is a locked form, so the only fields that need to be filled in can be opened. When you open this document, make sure the top of the screen, where the name of the document is displayed, says "Document1". The file can be saved in a Word folder or to your desktop and it creates a blank template to fill in. Please fill it in with as much of the requested information as possible. All of the fields in this document are expandable, and will adjust to fit as many characters as you need. Each field is design to accept cut and pastes from other document sources that you may have on campus.

Once you are done filling in your course information, you need to save this file. Since the Word document opened a blank version of this file, you will need to rename is it to save it. Under file, choose "Save as" and then input the name of the file. The naming scheme for this form is Institution-Year-OAN number-Course Title and Number.

Example, if you were ABC Community College, and you were submitting your Calculus I - Math110 course, the name of the file would be ABC-2005-OMT005-Calculus I-Math110. If two (or more) courses are required to fulfill that same OAN, you would submit ABC-2005-OMT005-Calculus I MTH 110 - Calculus II Math 111, and so on for multiple submissions.

When you are done with your submissions, please send them electronically to the Ohio Board of Regents so we can keep your information on file. Please send these to Ora McRae at omcrae@regents.state.oh.us .