

This course examines industrial processes for the production of organic and inorganic chemicals. The environmental impact and the challenges of a large-scale operation will be considered alongside the actual chemical processes involved.

Course name:	Chemistry and Industry
Credit weight:	0.5
Prerequisite:	CHEM*2700 CHEM*3430 or TOX*3300 1 of IPS*1510, MATH*1210, MATH*2080
Additional Information	http://131.104.156.23/
Instructor:	Prof. Michael K. Denk E-mail: michaeldenk@mac.com Office: MACN-334 Lab: MACN-345
Lectures:	Mon, Fri 16:00 - 17:20 MCKN-237
Midterm exam	Fri, Feb 12 th , in class
Final exam:	Wed, Apr 20 th , 11:30am - 1:30pm
Office hours:	by appointment via e-mail
Course Contents:	Historic Development of the Chemical Industry Base Chemicals C1, C2, C3, C4 Building Blocks Explosives and Dyes Polymers Chemistry in Healthcare

Evaluation: [total marks 100]

Midterm Exam	35%
Literature Project	20%
Final Exam	45%

Required text: *no text required.*

Important sources

Top: Ulmann's Encyclopedia of Industrial Chemistry, 5th ed., VCH, Weinheim, Federal Republic of Germany, 1985 (Ref. TP 9.U57 1985).

Encyclopedia of Chemical Technology, 4th ed., Wiley, New York, 1991 (Ref. TP 9.E685 1991)
Also known as Kirk-Othmer Encyclopedia of Chemical Technology.

Encyclopedia of Physical Science and Technology, 1st ed., Academic Press, Orlando, 1987 (Ref. Q 123.E497).

Encyclopedia Polymer Science and Engineering, 2nd ed., Wiley, New York, 1985 (Ref. TP156.P6 E5).

General policies and regulations:

E-mail Communication: As per university regulations, all students are required to check their university e-mail account regularly: e-mail is the official route of communication between the university and its students.

When You Cannot Meet a Course Requirement: When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, advise the course instructor in writing, with your name, id#, and e-mail contact. Follow the following link for regulations and procedures for Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Drop Date: The last date to drop the course, without academic penalty, is **11 March 2016**. For regulations and procedures for Dropping Courses, see Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Copies of out-of-class assignments: Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

Accessibility: The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Student Accessibility Services (SAS) as soon as possible. For more information, contact SAS at 519-824-4120 x56208 or email csd@uoguelph.ca or see the website:

<http://www.uoguelph.ca/csd/>

Academic Misconduct: The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor. The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Recording of Materials: Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

Resources: The Academic Calendars are the source of information about the university procedures, policies and regulations which apply to undergraduate, graduate and diploma programs:

<http://www.uoguelph.ca/registrar/calendars/index.cfm?index>