

Chemical Engineering

2010/2011

Program Guide

Chemical Engineering provides the basic scientific engineering knowledge for the design, construction and operation of equipment and plants that process materials by chemical and physical operations into desired products. The curriculum is aimed at provision of a broad background in the underlying sciences of Chemistry, Physics and Mathematics, and detailed knowledge of Chemical Engineering principles, that will enable the graduate to proceed to further academic degrees by study and research at this University or elsewhere, or to carry on research, development or production operations in any process industry.

Students can choose the general program or specialize in an area by completing an option program: Energy Conversion Engineering or Biomedical.

The Department of Chemical Engineering considers practical training and close contact with Industry an important aspect of the engineering curriculum. The Industrial Practice Program includes both the two week Chemical Engineering Practice School and the work term or co-op components carried out in industry.



Important Program Changes and Notes

First Year Students - All first year students will be automatically registered into their courses for the Fall 2010 term. This will ease your transition to UNB and help you to orient yourselves with Head Hall and the UNB campus. Please be aware that you must register in your Winter 2011 courses yourself. If you need help or have questions while doing this, please contact your Faculty Advisor (Willy Cook).

Second Year Students - For the 2010/2011 academic year, please be aware of the following changes to course timetabling that are considerably different from the regular routine (note that these changes will be for this year only):

1. CHE 2703 - will not be offered in Winter 2011.

All students requiring Fluid Mechanics in the upcoming academic year will be required to take the Civil Engineering version of the course (CE 2703) in the **Fall semester** since CHE 2703 will not be offered in the upcoming year.

2. CHE 2004 - moved lecture time

To accommodate the CE 2703 course, CHE 2004 will be offered at 8:30 am on Mondays, Wednesdays and Fridays.

3. CHE 2012 - moved to Winter term from its regular timeslot in Fall.

To accommodate the CE 2703 course, CHE 2012 has been moved to 10:30 am on Mondays, Wednesdays and Fridays in the Winter 2011 semester.

All Returning Students - There will be considerable changes to the first year statics/dynamics/physics content in the 2010/2011 academic year. Thus, all current students who have taken APSC 1013 but have not obtained credit for APSC 1023 ***should enrol in APSC 1023 in the FALL 2010 term*** as this will most likely be the last offering of this core course. Alternatively, you will be required to take the new Mechanics for Engineers course (ENGG 1082- 4 credit hours) *plus* a minimum of 1 ch of additional technical elective content to make up the credit hour differential.

Technical Electives

Please see the tentative list of technical electives for 2010/2011 in the following pages.

NOTE: CHE 5313 - Energy and the Environment will be offered in Winter 2011 but **WILL NOT BE OFFERED** in the 2011/2012 academic year. This is a core course requirement for students enrolled in the Energy Conversion Engineering option, so if you plan to graduate in May 2012 with the ECE option, you must take this course in Winter 2011 if you have not already done so. Please make your course plans accordingly.



TECHNICAL ELECTIVES

Technical Electives are scheduled as follows for 2010-2011:

Fall 2010

CHE 5254 Polymer Reaction Engineering and Polymer Processing 3 ch (3C)

Basic polymer concepts. Polymer structural characteristics and properties. Mechanisms, kinetics and reactors for polymerization. Polymer rheology and transport processes. Processing applications and the effects of processing on polymer properties. Prerequisites: CHE 2501, CHE 2703, MATH 3503. Co-requisite: CHE 3304 or equivalent.

CHE 5314 Chemical Process Industries 3 ch (3C)

A technical overview of selected chemical industries with consideration of their impact on the environment. Emphasis is on current process technology and pollution control methods. Environmental guidelines and regulations are also presented. Five modules, each covering a specific chemical industry, taught by Chemical Engineering faculty.

CHE 5824 Corrosion Processes 3 ch (3C)

Introduction: corrosion and its costs, corrosion measurement, general materials and environment affects. Types of corrosion: uniform, galvanic, crevice, pitting, intergranular, selective leaching, erosion-corrosion, stress-corrosion, hydrogen effects. Corrosion testing: materials selection. Electrochemical principles: thermodynamics, electrode kinetics, mixed potentials, practical applications. High temperature corrosion. Nuclear plant corrosion, fossil plant corrosion, other industrial environments. Prerequisites: CHE 2501, CHEM 3621.

Winter 2011

CHE 5244 Enhanced Oil Recovery Processes 3 ch (3C)

Overview of the secondary and tertiary enhanced oil recovery (EOR) processes commonly applied in Canada and worldwide. The fundamental EOR principles are described and examples in Canadian fields are analyzed. Some of the subjects presented include waterflooding, gas flooding, miscible flooding, chemical treatments, mobility control applications, steam injection, microbial and mining operations such as oil sands production.

CHE 5313 Energy and the Environment 3 ch (3C)

This course explores the generation and use of energy from the extraction of raw materials through to product production. It includes a survey of known material reserves and emerging technologies, and a discussion on the thermodynamic and regulatory constraints to energy conversion. Fossil fuels, nuclear power and renewable energy sources are discussed in detail including the environmental factors associated with the mining, conversion and end products from each technology. Prerequisites CHE 2012 or equivalent; CHEM 1982/1987

CHE 5923 Papermaking 3 ch (3C)

Overview of pulping and papermaking processes; pulp and paper properties; requirements for different grades of paper and board; stock preparation; applications of fluid mechanics; wet-end chemistry; dry-end operations. Prerequisites: MATH 1013; CHE 2703 or ME 3511, or instructor's permission.

CHE 4423 Chemical Engineering Practice School 4 ch (W)

A two week industrial practice school in selected industrial process plants scheduled after spring examinations. Groups of students, with Faculty supervisors, are assigned to engineering projects to be carried out on industrial process units. Students are required to present an oral report to plant operating and technical personnel at the end of the practice session. A written report is also required. As there will be practical limitations to the number of

students in any one practice school, application for positions in this course will be treated on a first-come, first-served basis. This course is strongly recommended as a technical elective for students not planning to complete either the co-op or professional experience programs. Prerequisites: CHE 2004, CHE 2412.

CE 5432 Wastewater Treatment and Pollution Control 4 ch (3C 2L)

Applied wastewater microbiology, wastewater analysis (physical, chemical and biological), wastewater treatment processes, industrial and municipal wastewater treatment and management, wastewater treatment systems and plant design. The course content will focus on treatment and management issues on wastewater from industrial, municipal, and domestic sources. Pollution control strategies and protocols are also examined. Prerequisites: CHEM 1882 (or equivalent) and CE 3403 or CHE 2004, or permission of course instructor.

Non-Technical Electives

Non-technical electives are an important element of engineering education. Regardless of engineering role, engineers require an appreciation of business concepts, good communication skills and a broad sense of the impact of technology on society. Most engineers end up in management roles, making decisions on time, people and money. It is wise therefore, for students with an interest in management to choose their complimentary studies courses carefully. In the chemical engineering program at UNB, three of the four non-technical elective courses required for the degree (12 ch total) are area specific:

Humanities (3 ch) – Sociology, Anthropology, History, Philosophy, Classics, Political Science

Business (3 ch) – Any TME or ADM course; or select ECON courses

Non-Language (3 ch) – Any Humanities or Business course; PSYC, RLS, ENV5, ENR, IDS, RCLP, ARTS, WLCS

Other (3 ch) – must be approved by the Director of Undergraduate Studies

The Department STRONGLY recommends that students to obtain business-related education through the complementary studies stream and to pursue a diploma in **Technology Management and Entrepreneurship** which is offered by the Faculty of Engineering. For more information on integrating this diploma with the undergraduate degree in chemical engineering, please contact the Director of Undergraduate Studies.

Transfer Credits

As per university regulations, current students who are seeking transfer credit for courses taken at other institutions must receive permission prior to taking the course. Courses that have been taken without the proper approvals will not be counted towards your degree. Please obtain the appropriate permission slip from the UNB Registrar, and seek approval from the Director of UG Studies for any courses you wish to take.

Pre- and Co-Requisites

Pre- and co-requisites are important guideposts along the degree program path. You must not attempt a chemical engineering course without having its stated pre- and co-requisites. If you find yourself out of sequence in the program (for example, as a transfer student or because of a late withdraw), please seek advising from the Academic Advisor or Director of UG Studies, and obtain official permission from the course instructor before enrolling into a course: a record of this permission must be put into your personal file in the Department. There is enough flexibility in the program to allow minor deviations, but no student will be allowed to take courses out of sequence if they are in academic jeopardy (GPA \leq 2.2).

Chemical Engineering Option Registration Form

- refer to Calendar or Program Guide for details on Option programs
- the Department of Chemical Engineering reserves the right to remove registration in a chosen Option program, where students do not register in Option courses or where their studies clearly diverge from that Option program.
- the Department of Chemical Engineering will ensure that all students registered in an Option have a reasonable opportunity to complete that Option over two academic years of study.
- withdrawing from or failing Option courses is normally not a problem, but either could potentially make subsequent completion of an Option impossible.
- admission to Options is automatic for students enrolled in the BScE (Chemical Engineering) program who have successfully completed both ChE 2004 (or 2014) and ChE 2012, **along with the completion of this form.**

Name: _____ UNB email: _____

ID # _____ Expected Graduation Year: _____

OPTIONS (You may register in more than one Option)

Biomedical Engineering Option

Fall 2010

APSC 3953 Basis of Biomedical Eng.
Biol 2033 Biochemistry
Chem 3003 Biocomputing in Drug Des.
KIN 2062 Intro. To Biomechanics
Phys 5143 Magnetic Resonance Imag.

Winter 2011

Biol 2043 Cell Biology
Biol 2053 Genetics
Biol 2073 Fund. Of Microbiology
Biol 2753 Intro. To Human Anatomy
Biol 2792 Human Physiology-Systems
Chem 4003 Biocomputing in Drug Design II
KIN 3061 Advanced Biomechanics

Energy Conversion Engineering Option

Fall 2010

ChE 5314 Chemical Process Ind.
ENR 1001 Resource Mgmt. Issues
ENR 2021 Nat. Res. Mgmt., Inst.

Winter 2011

ChE 5313 Energy and the Environment
ChE 5244 Enhanced Oil Recovery
CE 5432 Wastewater Treatment & Poll.
ENVS 2023 Understanding Envir. Issues
ENVS 4002 Stakeholders Approaches Env.
Hist 3925 Technology and Society

* Please note: the Environmental Option, Nuclear & Power Plant Engineering Option and Pulp & Paper Option are available only to students currently registered.

Signed: _____ Date: _____

Please return this completed form to the Chemical Engineering Office.

Biomedical Engineering Option in Chemical Engineering

The Biomedical Option is available to students in the Department of Chemical Engineering. In order to enter the option program students must meet approval by the Department of Chemical Engineering.

To complete the option program the student must complete four technical electives (12 ch minimum), consisting of one core course (which is normally offered every year),

APSC 3953	Basis of Biomedical Engineering	3ch
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and three courses selected from the list below (most courses are offered every year):

BIOL 2033	Biochemistry	3ch
BIOL 2043	Cell Biology	3ch
BIOL 2053	Genetics	3ch
BIOL 2073	Fundamentals of Microbiology	5ch
BIOL 2753	Introduction to Human Anatomy	3ch
BIOL 2792	Human Physiology - Systems	3ch
CHEM 3003**	Biocomputing in Drug Design I	5ch
CHEM 4523	Medicinal Chemistry	3ch
CHEM 4003**	Biocomputing in Drug Design II	4ch
KIN 2062	Introductory Biomechanics	3ch
KIN 3061	Advanced Biomechanics	4ch
KIN 4163	Workplace Ergonomic Design And Analysis	3ch
ME 5913	Biomechanics	4ch
PHYS 5143	Magnetic Resonance Imaging	3ch

* some option courses require that Biol 2752 be taken as a pre-requisite.

** some option courses require that Biol 1001 be taken as a pre-requisite.

Students with a special interest in biology and biochemical engineering are encouraged to pursue a Minor in Biology through the Faculty of Science. Such students should seek advising from the Director of Undergraduate Studies to embark upon this path as soon as possible in the degree program.

Energy Conversion Engineering Option in Chemical Engineering

This option places emphasis on emerging technologies and societal issues in the energy and environment sector within chemical engineering. This directed path consists of 3 technical elective courses and 1 complementary studies course (minimum total of 12 ch) selected from the approved lists below. Students may elect to receive a further specialization within the ECE Option by focusing their technical electives in nuclear & power plant technology, oil & gas processing or environmental disciplines.

To participate in the option, students must seek approval of the department.

Core:

CHE 5313 Energy and the Environment

Complementary Studies Elective: (1 course from the following list):

ENVS 2023 Understanding Environmental Issues
ENVS 4002 Stakeholder Approaches to Environmental Problem Solving
ENR 1001 Resource Management Issues
ENR 2021 Natural Resource Management, Institutions, Policy, Governance
ENR 2541 Climate Change
HIST 3925 Technology and Society

Technical Elective: (2 courses from the following list):

Oil & Gas Processing

CHE 5234 Oil Refining and Natural Gas Processing
CHE 5244 Enhanced Oil Recovery
CHE 5264 Oil Sands Technology
CHE 5933 Biorefining: Principles, Processes and Products

Nuclear & Power Plant Technology

CHE 5344 Combustion
CHE 5744 Steam Supply Systems
CHE 5824 Corrosion Processes
CHE 5834 Nuclear Engineering

Environmental

CE 5432 Wastewater Treatment and Pollution Control
CHE 5314 Chemical Process Industries
CHE 5413 Air Pollution Control
ME 5473 Energy Management

Students with special interest in environmental studies are also encouraged to pursue a minor or secondary major in this area through the university's *Environmental Studies Program*, administered by the Faculty of Forestry and Environmental Management. The Department also encourages interested students to pursue a Masters of Engineering degree in environmental studies after graduation.

International Exchange

UNB recognizes that we live in an increasingly globalized world. This is why the university provides students with overseas opportunities. The Student Abroad Program involves exchanges, internship programs or courses at overseas institutions. Visit the Students Abroad section (<http://www.unbf.ca/international/studentabroad.htm>) at the International Relations website (<http://www.unbf.ca/international/index.html>) for more information on where you can go, how to get there, and other ways to get involved internationally!

Are you setting sails to new horizons? If yes, there are a few things that you should be aware of before departing. To help you get ready for an experience of a lifetime, detailed information on entry requirements, passports & visas information, study permit, travel warnings, immunization, fees, travel advice, etc, are necessary. The International Relations Office has several resources available to you. Please contact them for more information.

Chemical Engineering Exchange programs

Students should consult the Director of Undergraduate Studies for further information on the ChE exchange programs.

France

The Department of Chemical Engineering at UNB has exchange programs with the following École Supérieure de Chimie Physique Électronique de Lyon (<http://www.cpe.fr/fr2/default.asp>), Ecole Nationale Supérieure des Mines de Saint-Etienne (<http://www.emse.fr/index.php>) and Ecole Nationale Supérieure de Chimie de Montpellier (<http://www.cpe.fr/fr2/default.asp>) in France. Students who have completed 2 years of study at UNB can study for one term or one year at one of these French universities. Students take appropriate courses in Lyon, Saint-Etienne or Montpellier to obtain credits for some third and fourth year courses and complete the rest of their requirements upon returning to UNB. Students should consult with the Director of Undergraduate Studies for proper course selection prior to leaving for France.

Students who go to France pay full UNB tuition, and receive \$500 towards travel costs. This arrangement ensures that the year in France is financially comparable to the one in Fredericton in addition to providing a unique experience.

Summer School at CPE Lyon

The CPE Lyon Summer school program runs for four weeks (usually during the last week of May and first three weeks of June). During these four weeks, CPE Lyon offers short courses in science, French, and undergraduate research (literature project). The courses and the project are adapted to correspond with the background of the students. There are about 45 hours of French courses and 45 of scientific courses including the project. Two industrial visits are organized, as well as a cultural guided tour of Lyon (Lyon is a Unesco World Heritage Site) and a gastronomic dinner. The students will also be able to take part in the end-of-year weekend with French students.

It is not necessary to be fluent in French but a basic knowledge is required. This program is offered to first and second year students. In addition, there may be also a possibility of an internship in industry in France for the remainder of the summer. The application deadline is normally in early February.

Australia

Established in 1853, the University of Melbourne (<http://www.unimelb.edu.au/>) has a rich history. The Melbourne School of Engineering (<http://www.eng.unimelb.edu.au/>) has an international reputation for its research, teaching, academic staff and graduates. The program is recognized for its excellence and is ranked 21st in the world for Technology by The Times Higher Education World University Rankings 2007. A detailed course listing can be found at

<http://www.eng.unimelb.edu.au/courses/ugrad/courses/index.html>

Norway

Bergen University College (<http://www.hib.no/english/index.html>) is a state institution of higher education, established in August 1994 by the merging of six former independent colleges in Bergen, Norway. The Faculty of Engineering offers degrees within various fields of engineering. Among one of them being chemical engineering (<http://www.hib.no/english/AI/chemical/index.html>). The language of instruction is Norwegian!

China

The Central South University (<http://www.csu.edu.cn/index.htm>) offers an opportunity for an academic exchange. The language of instruction in the department of chemical engineering is Chinese.



Chemical Engineering Co-op Scheduling

Students completing their BScE in Chemical Engineering may wish to gain work experience during their studies. The co-op program in Chemical Engineering is recommended for students who wish to maximize the reinforcement between academic and work experience. The schedule shown below is the recommended pattern of work terms for students in the co-op program who wish to add no more than one year to their time at UNB. By simply switching the order in which terms 5 and 6 are taken, it is possible to fit 20 months of co-op experience into a five-year degree program. An example of a 16 month Co-op term is also shown.

		standard program	recommended co-op schedule	16 month Co-op work term after third year
year 1	Sept.	term 1	term 1	term 1
	Jan.	term 2	term 2	term 2
	May			
year 2	Sept.	term 3	term 3	term 3
	Jan.	term 4	term 4	term 4
	May			
year 3	Sept.	term 5	co-op	term 5
	Jan.	term 6	term 6	term 6
	May		co-op	
year 4	Sept.	term 7	term 5	co-op
	Jan.	term 8	co-op	
	May	<i>graduation 4 years</i>	co-op	
year 5	Sept.		term 7	term 7
	Jan.		term 8	term 8
	May		<i>graduation 5 years</i>	<i>graduation 5 years</i>

Note: The minimum cumulative GPA for participation in the Co-Op Program is 2.7

RECOMMENDED 4-YEAR PROGRAM FOR STUDENTS ENTERING IN 2010

Mondays, Wednesdays & Fridays

Time	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8
8:30 AM		CHEM 1982	CHE 2012	MATH 3503				
9:00 AM								
9:30 AM	MATH 1503	CHE 1004	CHEM 2401		CHE 4601	CHE 3314		
10:00 AM								
10:30 AM	PHYS 1081	EE 1813	BIOL 1001	CHE 2703	CHE 3324	CHE 2123	CHE 4101	
11:00 AM								
11:30 AM	MATH 1003	MATH 1013	MATH 2513		CHE 3304	CHE 3505	CHE 4341	CHE TE IV
12:00 PM								
12:30 PM	CS 1003 (Mon)			CHE 3418	NTE or TE	NTE or TE	NTE or TE	NTE or TE
1:00 PM								
1:30 PM	CS 1003	ENGG 1082	CHE 2004	CHE 2525	CHEM 3621			
2:00 PM								
2:30 PM								
3:00 PM	ENGG 1003 (Mon)	ENGG 1082 (Mon)		CHE 2412 (Wed or Fri)	CHEM 3886 (Monday)		CHE 4225 (Wed)	CHE 4225 (Wed)
3:30 PM								
4:00 PM	PHYS 1081 (Wed)	CHEM 1987 (Wed)						
4:30 PM								
5:00 PM								
5:30 PM								
6:00 PM								
6:30 PM								
7:00 PM								

Tuesdays

8:30 AM		EE 1813	CHE 2501	MATH 3503	CHE 3424	CHE 3434		
9:00 AM								
9:30 AM								
10:00 AM								
10:30 AM	ENGG 1003		CHE 2012	STAT 2593	CHE3304	CHE3505	CHE 4341	
11:00 AM								
11:30 AM			MATH 2513	CHE 2703		NTE or TE		
12:00 PM								
12:30 PM								
1:00 PM								
1:30 PM				CHE 2412				
2:00 PM								
2:30 PM								
3:00 PM					CHE 3424 or Mon or Wed or Thurs	CHE 3434 or Mon or Wed or Thurs		
3:30 PM	CS 1003	EE 1813						
4:00 PM								
4:30 PM								
5:00 PM								
5:30 PM								
6:00 PM								
6:30 PM								ENGG 4013
7:00 PM								

Thursdays

8:30 AM	MATH 1003	MATH 1013	CHE 2501		CHE 3324		CHE 4101	
9:00 AM								
9:30 AM								
10:00 AM								
10:30 AM	ENGG 1003			STAT 2593	CHE 4601			
11:00 AM	ENGG 1015					NTE or TE	CHE 4404	CHE 4404
11:30 AM								
12:00 PM								
12:30 PM								
1:00 PM								
1:30 PM			CHE1024*	CHE 2525				
2:00 PM								
2:30 PM								
3:00 PM								
3:30 PM	ENGG 1015		CHE 2506			CHEM 3897	CHEM 4886	
4:00 PM								
4:30 PM								
5:00 PM								
5:30 PM								
6:00 PM								
6:30 PM								ENGG 4013
7:00 PM								

lecture	tutorial	lab
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**Degree Audit Form Chemical Eng.
Students Entering in 2010/2011**

Name: _____ Date: _____

UNB ID: _____ email: _____

UNB Course	ch	Note(s)	Grade(s)	UNB course	ch	Notes	Grade(s)
ChE 1004	3			Phys 1081	5		
ChE 2004	3			Biol 1001	3		
ChE 2012	3			CS 1003	4		
ChE 2123	3			EE 1813	4		
ChE 2412	3			Engg 1082	4		
ChE 2501	3			Engg 1001	CR		
ChE 2506	1			Engg 1003	4		
ChE 2525	4			Engg 1015	2		
ChE 2703	3			Engg 4013	3		
ChE 3304	4						
ChE 3314	3			Math 1003	3		
ChE 3324	4			Math 1013	3		
ChE 3418	3			Math 1503	3		
ChE 3424	3			Math 2513	4		
ChE 3434	3			Math 3503	3		
ChE 3505	4						
ChE 4101	3			Stat 2593	3		
ChE 4225	8						
ChE 4341	4			NTE Humanities	3	Anth, Clas, Hist, Phil, Pols, Soci	
ChE 4404	3			NTE Business	3	ADM, TME, Econ	
ChE 4601	4			NTE Non-Lang	3	Hum, Bus, Psyc, RLS, ENVS, ENR, IDS, RCLP, ARTS, WLCS	
CHE TE							
CHE TE				NTE Other	3	With Approval of Dir. UG Studies	
CHE TE							
CHE TE							
Chem 1982/1987	5						
Chem 2401	3						
Chem 3621	3						
Chem 3886	2						
Chem 3897	1						
Chem 4886	2						

Notes:

PLAGIARISM



The Department has a zero tolerance policy on plagiarism. Teaching Assistants and instructors will aggressively identify and severely penalize offenders, even for minor infractions.

The minimum penalty for plagiarism is a grade of zero on the work and a notation on your transcript.

Graduation Policy for Chemical Engineering (BScE)



The policy on graduation described in the UNB Calendar is that students must complete the degree as it is defined when they start a program. Unfortunately, this isn't really practical when courses are deleted or changed, so Chemical Engineering uses a modified version of this regulation: the policy is the lesser of the requirements when you start your degree and those when you complete it. For example, students completing their degrees in 2007-2008 could have any one of EE 2703, CE 2023, or ME 2121, even though EE 2703 and ChE 2525 were not a possibility when they began their degrees, and even though CE 2023, ME 2121, and EE 2703 are no longer permitted. If a course is dropped or changed in the program we will always make every attempt to ensure a reasonably fair transition. However, students who fail courses close to a change in requirements may sometimes be required to complete additional credit hours as a result. Following the recommended four-year program is generally the best way to avoid complications due to rule changes.

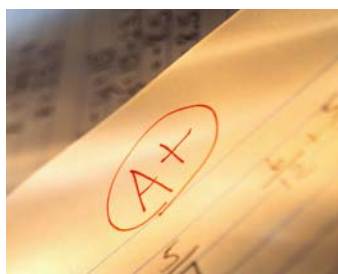
DEFERRED EXAMS

You are expected to follow the exam schedule set by the Registrar.

Students who by reason of illness or extenuating circumstances are unable to write final examinations at the specified times may apply to the Registrar for permission to write deferred exams written medical permission is required.

The Department of Chemical Engineering has set deferred examination dates of Thursday, January 6, 2011 and Thursday, May 5, 2011. Students who cannot write on these dates will normally be required to appeal for further deferral via the Registrar's Office.

For full Deferred Examination regulations please refer to University Regulations in the Undergraduate Calendar.



CHEMICAL ENGINEERING FACULTY

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CHE OFFICE INFO

Phone: 453-4520

Fax: 453-3591

Location: D-39 (Head Hall)

Hours: winter - 8:15 - 4:30, summer 7:45 - 4:00 (closed for lunch: noon-1 pm)

FACULTY ADVISORS

Willy Cook	<i>1st Year and Transfer Students</i>
TBA	<i>2nd Year</i>
Laura Romero-Zeron	<i>3rd Year</i>
Guida Bendrich	<i>4th Year</i>
Ying Zheng	<i>5th Year</i>

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