Registrar

GRANDE PRAIRIE REGIONAL COLLEGE
Department of Science
1991 - 92

CHEMISTRY 250: Organic Chemistry
NOTE: Chemistry 30 or equivalent is a prerequisite.

INSTRUCTOR: Dr. Dave Wanigas, Office #J207.
Phone# 539-2004
Home 538-3859

LECTURE: MWF, 2:00 - 2:50 p.m. in J201

ALBERTA TRANSFER CREDIT:

U of Alberta:	Chem 160	6 credits
U of Calgary:	Jr. Org. Chem	6 credits
U of Lethbridge:	Chem 2100/2200, or 2500/2600	6 credits
Athabasca:	Jr. Chem	6 credits
Camrose Lutheran:	Jr. Chem	6 credits
Concordia:	Chem 250	6 credits
King's College:	Jr. Chem	6 credits

FINAL GRADE: Final grades are given on a nine-point scale as follows:

9	Outstanding	
8	Excellent	First Class Honors
7		
6	Good	Second Class Standing
5		
4	Pass	
3		
2		
1	Fail	

COURSE OUTLINE:

Lecture Component:
A study of the fundamental principals of the chemistry of carbon compounds including nomenclature, functional group chemistry of the main classes of organic compounds. Topics include: structure and bonding; physical properties; stereochemistry; addition, elimination and substitution reactions; structure-reactivity relationships; aromaticity and aromatic substitution; condensation reactions; and spectroscopic methods for structure determination.

A representative selection of some of the molecules found in everyday life and biological systems will be discussed, e.g., molecules found in soaps, fibres, perfumes, polymers, carbohydrates, medicine, food additives and amino acids.

Laboratory Component:
Techniques in organic chemistry; preparation of some organic compounds; methods of qualitative organic analysis.

Tutorial Component & Assignments:
Problem solving and discussion sessions with weekly problem sets. Regular quizzes and assignments will be given and marked.

NOTES:

i) Seminars will be on Tuesdays, (11:00 - 12:20 p.m.) and Thursdays (8:00 - 9:20 pm) in E305.

ii) Laboratory Section #1 will be on Tuesdays from 8:00 to 10:50 in J119. Laboratory Section #2 will be on Tuesdays from 3:00 to 5:50 in J119.

iii) Tutorial period #1 will held on Tuesday and tutorial period #2 will be on Thursdays in E305.

TEXT BOOKS AND LABORATORY ITEMS:

The following books are required:

1. Solomons, Organic Chemistry, 4th edition, Wiley 1988.

2. Organic Chemistry Experiments Chemistry 250, University of Alberta 1988.

3. A hard backed laboratory report book.

4. An assignment book.

The following is highly recommended:

1. Molecular Structure Model Set B, Holden-Day, or the Allyn and Bacon Molecular Model Set for Organic Chemistry.

NOTES:

1. All required books and lab coats are available at the College Bookstore.
2. Molecular structure model sets are available on loan from the Chemistry Lab Technician J120.
3. A limited number of study guides by Solomons and Fernandez are available at the Bookstore.
4. Safety glasses are provided and are required for the laboratory.

EVALUATION:

The EXAMINATION SCHEDULE and COMPOSITION of the FINAL GRADE is:

i)	First Semester Midterm Exam: Tuesday, October 23	10%
ii)	First Semester Final Exam to be scheduled between Dec 12 & 20	15%
iii)	Second Semester Midterm Exam: Tuesday, February 19.	10%
iv)	Second Semester Final Exam to be Scheduled between April 15 & 23	30%
v)	Laboratory	20%
vi)	Tutorial Grading Component	10%
vii)	Assignments	5%

NOTES:

1. The two mid-term exams will each be of 2 hours duration and the final exams will be of 3 hours duration; excused absences from the laboratory will be made only if the student produces a medical certificate or an acceptable excuse. Excused absences from Mid-term exams will not be made-up. The mark will be calculated based on your performance on the other mid-term exams and the final exam.

2. Certain examination questions will be directly related to the problem assignments. Every written examination will have questions related to laboratory work comprising 8 - 10% of the exam.

3. A pass grade is essential for the laboratory component.

4. Multiple choice and short answer quizzes(10 min.) of the tutorial grading component will contribute towards 10% of the final grade.

5. Regular attendance in lecture, laboratory, and tutorial components is a course requirement.

6. Assignments must be handed in on the due date.