ACADEMIC EXCELLENCE. REDEFINED

American University of Ras Al Khaimah

Spring 2018

Syllabus for General Organic Chemistry Laboratory II (CHEM-218)

Room No: B 120 (Chemistry Laboratory)

9:00 to 11:30 AM, Thursday

I. Instructor Information:

Name: Dr. Shagufta Waseem
Office Hours: 11:00 – 12:00 AM, Tuesday
Email: shagufta.waseem@aurak.ac.ae
Please observe these office hours or make an appointment for a different time.

II. Course:

Course Credit Hours: 1
Co-requisites: CHEM 217
Pre-requisites: CHEM 216

III. Course Description: (1:0:2) Laboratory techniques and reactions arranged to accompany CHEM 217. This laboratory course provides experience in organic chemistry techniques and builds the skills necessary for synthesis, separation, purification, identification of organic molecules using different spectroscopic techniques, and for the qualitative analysis of functional groups.

IV. Course Materials and Basic Resources:

Introduction to Organic Laboratory Techniques, 4th edition, by D. Pavia, G. Lampman, G. Kriz and R. Engel, 2007, Thomson Brooks/Cole, ISBN-13:9780495388876.

Handouts containing detailed procedures will be provided for laboratory exercises and would be available on **Blackboard**.

http://bb.aurak.ac.ae/

V. Course Goals:

- To promote critical thinking, problem solving, and writing through learn and applying modern laboratory skills in organic chemistry.
- To discuss basic principles and theories underpinning the field of synthetic organic chemistry and spectroscopic study, provide experiential learning activities as well as spectroscopic study for students to supplement concepts and theories presented in CHEM 217
- To provide a laboratory-rich learning environment where students will learn proper laboratory protocols, plan and conduct experiments in areas of synthetic organic chemistry, practice the scientific method, analyze data, and reach logical and reasonable conclusions.

VI. Student Learning Outcomes

At the end of this course student will be able to:

CSLO1: Apply basic organic chemistry laboratory techniques for the synthesis, purification and characterization of organic compounds.

CSLO2: Explain spectroscopic and chromatographic techniques and their applications.

CSLO3: Analyze the experimental data obtained from qualitative analyses of functional groups.

CSLO4: Create concise scientific reports including laboratory observation and experimentation.

VII. Evaluation Plan

- Lab Reports/Lab skills 10%
- Lab reports/Modeling (DASPA) 20%
- Quizzes 20%
- Midterm Exam 20%
- Final Exam 30%

Assessment Tool (number)	CSLO achieved	Weightage
Lab reports/Lab Skills	CSLO 1, CSLO 2. CSLO 3, CSLO 4	10%
Lab reports Modeling (DASPA) Evaluation on the basis of rubrics mentioned in DASPA	CSLO 1, CSLO 2, CSLO 3, CSLO 4	20%
Quizzes (2) [closed book, consisting of problem-solving and multiple choice, true and false]	CSLO 1, CSLO 2. CSLO 3, CSLO 4	20% (each quiz is worth 10%)
Midterm Examination (closed book, consisting of problem-solving and multiple choice, true and false	CSLO 1, CSLO 2. CSLO 3, CSLO 4	20%

and short answer questions and a practical element in 2 hours)		
Final Examination (closed book consisting of multiple choice, true and false, short answer questions and practical element in 2 hours)	CSLO 1, CSLO 2. CSLO 3, CSLO 4	30%

Knowledge, understanding and application of the basic principles and concepts of Organic Chemistry based on the material taught in class will be examined by "closed-book" quizzes and midterm and final examinations. Self-study and directed learning will be assessed by assignments and presentations. Written feedback will be provided to students on assignments, quizzes and presentations and examinations to highlight deficiencies in student responses and aspects that need particular attention by way of improvement.

VIII. Weekly Topics and Assignments

Tentative Schedule

Week	Experiment No.	Topics of experiment	Quiz due date	SLO
1	01	Introduction, safety -Organic hazards, check in		4
2	02	Qualitative analysis of primary, secondary and tertiary alcohols		3,4
3	03	Nuclear Magnetic Resonance Spectroscopy (NMR)		2,4
4	04	Online Spectra Databases: NMR Spectroscopy **Quiz 1**	22/02/2018	2,4
5,6	05	Nitration of Methyl Benzoate & Purification of Methyl Benzoate by recrystallization and **Review session**		1,4
7		**Midterm Examination**	15/03/2018	
8	06	Identification of an Unknown functional groups (Carboxylic acids, Aldehydes, Ketones)		3,4
		Spring Break		
9	07	Thin layer Chromatography-separation of Amino acids.		2,4
10	08	Qualitative Analysis of Biomolecules (Reducing & non-reducing sugars)		3,4
11	09	**Quiz 2** Fisher Esterification reaction- Synthesis of Artificial Flavor (Ester)	26/04/2018	1,4
12,13	10	Aldol Condensation: Dibenzal-acetone Synthesis and purification		1,4

14	11	High Performance Liquid Chromatography (HPLC) and **Review session**		2,4
15		**Final Exam**	24/05/2018	

IX. Evaluation of Learning

The grade breakdown is as follows:

Methods	Dates	Weights
Lab Reports/Lab skills	Weekly	10%
Lab reports/Modeling (DASPA)	Weekly	20%
Quizzes	Mentioned in Tentative Schedule	20%
Midterm Examination	15/03/2018	20%
Final Examination	24/05/2018	30%

X. Grading System and Scale

University course work is measured in terms of quantity and quality. A credit normally represents one hour per week of lecture or recitation or not fewer than two hours per week of independent or laboratory work throughout a semester. The number of credits is a measure of quantity. The grade is a measure of quality. The university system for undergraduate grading is as follows:

Grade	Score	Quality Points
A	90-100	4
A-	87-89	3.7
B+	84-86	3.3
B	80-83	3
B-	77-79	2.7
C+	74-76	2.3
C	70-73	2
C-	67-69	1.7
D+	64-66	1.3
D	60-63	1
F	0-59	0

XI. Methodologies for Teaching and Learning:

One of the primary methods of instruction for this course is lectures and demonstrations that train students in the methodology used for problem-solving as well as performing standard laboratory techniques in general chemistry. Laboratory exercises involving problem-solving will take the form of in-class and homework assignments and are geared to provide students with fundamental experiments skills required to analyze and interpret data of different experiments. In

addition to students working individually, pair/group work will also be encouraged during performance of laboratory exercises to foster building of teamwork, leadership and organizational skills by students. Laboratory reports communicate the experimental laboratory exercises in writing and require students to exercise data interpretation, analysis and written presentation skills. Students will be provided a general rubric for writing of lab reports and will be informed of any additional requirements for specific laboratory reports. Assignments, quizzes and discussion sessions are intended to reinforce learning. Assignments will consist of data analysis and/or review questions based on the laboratory exercise. Methods that foster active participation as well as individual and cooperative learning will be employed and these include student–led discussions, question and answer sessions and data analysis. The application of the methodologies and techniques used in the laboratory to general chemistry based research will also be emphasized. Quizzes and examinations will assess student knowledge; understanding and application of laboratory-based methodologies used in general chemistry.

XII. Relevant Policies

Relevant policies [Except for the policy on academic misconduct, the inclusion of the following is only suggested and is at the discretion of the instructor].

A. Academic Misconduct. A. Academic Misconduct:

The Honor Code and Honor System

The Honor Code is an integral part of university life. Students are responsible, therefore, for understanding the code's provisions. Cheating and attempted cheating, plagiarism, lying, and stealing of academic work and related materials constitute Honor Code violations. In the spirit of the code, a student's word is a declaration of good faith acceptable as truth in all academic matters. To maintain an academic community according to these standards, students and faculty must report all alleged violations to the Honor Committee.

AURAK expects its students to uphold high standards of academic integrity and conduct. In particular, students are required to:

- Attend classes regularly and punctually.
- Be actively involved in class discussions and other course related classroom activities.
- Complete assignments on time.
- Meet the requirements for course and program completion.
- Abide by high standards of academic integrity, ethics, and honesty.
- Refrain from cheating on homework and examinations, plagiarizing other people's work by submitting it as their own, or any other forms of academic dishonesty.
- Adhere to the published test or examination rules and regulations.
- Make every effort to maintain good academic standing.

Given the internet and easy access to information and knowledge sources, the University is committed to students' learning in an ethical manner. For all academic assignments, project work, and presentations, students need to ensure that due acknowledgement is given to the source of any information which they incorporate in their work. The following are some examples of academic misconduct:

- Cheating/using unfair means in examinations
- Significant paraphrasing in written academic work that is unacknowledged

- Unacknowledged use of information or ideas unless such ideas are commonplace
- Citing sources which student has not read or referred to
- Breaching the word limit of assignments and mentioning wrong word count
- Plagiarism

Plagiarism. Plagiarism is a serious academic offense. Plagiarism is the use of someone else's ideas, words, projects, artwork, phrasing, sentence structure or other work without properly acknowledging the ownership (source) of the property (item). Plagiarism is dishonest because it misrepresents the work of someone else as one's own. It is intellectual theft as it robs others of credit for their work. Plagiarism takes many forms including:

- Using someone else's words without putting those words in quotation marks and providing full information about their source, sufficient information so that another person could easily locate the words that are being quoted, whether it is in an article, a book, or on the web.
- Using unique, original ideas, phrases, sentences, paragraphs, or other materials, etc. from a single source or a variety of sources such as a text, journal, web page, electronic source, design, artwork, etc. in one's work without citing all sources. For a student found plagiarizing, the punishment will be a failing grade in the assignment without the right to redo the assignment up to a failing grade in the course.

Examples of Cheating. Acts of cheating include, but are not limited to, the following:

1. Copying from another student's paper during an exam, or allowing or encouraging another student to copy from your paper during an exam.
2. Having someone else take your exam in your place, or taking an exam for someone else.
3. Obtaining unauthorized access to exams and accepting exams obtained by unauthorized access.

Examples of Plagiarism. Acts of plagiarism include, but are not limited to, the following

1. Handing in as 'original', work prepared by someone else or preparing/completing someone else's work.
2. Copying from a book or other publication without citing sources.
3. Using the same work to satisfy the requirements of two or more courses (during the same or different terms).
4. Having someone else rewrite a rough draft or rewriting a rough draft that is not your own work.

Violations of plagiarism are subject to evaluation according to the criterion of "reasonable doubt". The student's right to appeal and the procedures to be followed in carrying out the appeal of the University's decision is clearly stated in the *Student Handbook*.

Any violations of the University's academic rules, regulations or directives are reported to the Deputy Vice Chancellor Academic Affairs and may result in one of the following disciplinary measures.

- Verbal or written warning
- Repeating the term
- Dismissal from the University

Please refer to the relevant section in the *Handbook* and ensure a clear understanding of the provisions of the University honor code and honor system in order to avoid infringement of the policy and attendant penalization.

B. **Concerns about grades or other course matters**. Students are responsible for their learning experiences. If you are concerned about a class matter, first discuss it with the instructor. If the matter is not resolved, the next step is to meet with the Program Chair. If you still have a concern, meet with the Dean. The matter is likely to be resolved before it reaches that point, but if it is not, then the following positions are next on the organization chart: the Deputy Vice Chancellor for Academic Affairs, and, finally, the Vice Chancellor. Students who decide to "jump to the top" will be referred back to the appropriate next step.

C. **Assignments.** University policy is that assignments are due on the date assigned. Instructors may refuse to accept late assignments or lower the grade that would be otherwise given.

D. Attendance. University policy is that students are to attend all classes and to arrive on time. Verified emergencies may require an absence or delay, but habitual tardiness or absence affects your learning and disrupts the class. Your presence is important since student contributions are a significant part of classroom activity and absence deprives others of your contributions. According to the AURAK resolution no.: 84-1-106/2013 *Student Attendance Policy* as follows:

- Attend all learning and teaching sessions associated with their program of study.
- Notify their course instructors in advance (in person, by phone or email) that they will be absent from time tabled class sessions.
- Obtain prior permission from their instructor or course manager, for planned absences of two or more consecutive class session during the semester.
- Provide a medical certificate or other corroborating evidence to explain their absence, if required by the university.

Unsatisfactory student attendance includes failure to regularly attend learning and teaching sessions without providing a satisfactory reason to instructors for absence and/ or persistent late arrival at, or early departure from, learning and teaching sessions.

Where a student fails to attend classes for **two weeks cumulatively** without the University's permission, the student will receive a "**non-attendance warning (NAW)**", and will be required to provide satisfactory explanation for their non-attendance. With each subsequent NAW issued, a formal report on the student's non-attendance is made to their sponsor.

Where a student fails to attend classes for **four or more weeks cumulatively**, or where a recurring pattern of non-attendance (that is more than **two** NAWs) is observed, over the course of the semester, the student may be deemed to have failed the course, in which case they will receive an "F (Fail)" or (Unsatisfactory)" grade, as appropriate. At this point, and at the instructor's recommendation, the dean has the authority to instruct the registrar to remove the student from the course.

E. Mobile Phones: All mobile phones, pagers and/or other communication devices should be turned off before entering the classroom.

F. Diversity and the Use of English. English is the common language of the AURAK campus, the use of which includes everyone. It is the only language to be used in the classroom. AURAK brings together students and faculty from diverse cultural and linguistic backgrounds, which is one of the strengths of the university. This diversity provides an opportunity to share our different experiences and enlarge our understanding of the world. Classroom discussions and other activities are to be conducted with courtesy and civility and respect for one another and for our differences.

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American University of Ras Al Khaimah

Fall 2017

Syllabus for General Organic Chemistry Laboratory II (CHEM-218)

Room No: B 120 (Chemistry Laboratory)

3:00 to 5:30, Thursday

I. Instructor Information:

Name: Dr. Shagufta Waseem
Office Hours: 10:00 – 11:00 AM, Thursday
Email: shagufta.waseem@aurak.ac.ae
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CSLO4: Create concise scientific reports including laboratory observation and experimentation.

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4,5	04	Nitration of Methyl Benzoate & Purification of Methyl Benzoate by recrystallization **Quiz 1**	12/10/2017	1,4
6	05	Identification of an Unknown functional groups (Carboxylic acids, Aldehydes, Ketones)		3,4
7		**Midterm Examination**	26/10/2017	
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11	09	**Quiz 2** Fisher Esterification reaction- Synthesis of Artificial Flavor (Ester)	23/11/2017	1,4
12,13	10	Aldol Condensation: Dibenzal-acetone Synthesis and purification		1,4
14	11	High Performance Liquid Chromatography (HPLC)		2,4
		Winter Break		

15		**Final Exam**	11/01/2018	

IX. Evaluation of Learning

The grade breakdown is as follows:

Methods	Dates	Weights
Lab report	Weekly	10%
Lab reports	-	20%
Quiz	Mentioned in Tentative Schedule	20%
Midterm Examination	26/10/2017	20%
Final Examination	11/01/2018	30%

X. Grading System and Scale

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E. Mobile Phones: All mobile phones, pagers and/or other communication devices should be turned off before entering the classroom.

F. Diversity and the Use of English. English is the common language of the AURAK campus, the use of which includes everyone. It is the only language to be used in the classroom. AURAK brings together students and faculty from diverse cultural and linguistic backgrounds, which is one of the strengths of the university. This diversity provides an opportunity to share our different experiences and enlarge our understanding of the world. Classroom discussions and other activities are to be conducted with courtesy and civility and respect for one another and for our differences.