

## Course Description Form

1. Course Name: Organic Chemistry					
2. Course Code: HECM3102					
3. Semester / Annual : Annual					
4. Description Preparation Date: 2026\3\30					
5. Available Attendance Forms: Regularity					
6. Number of Credit Hours (Total) / Number of Units (Total): Theory 60+ Practical 90\ 7					
7. Course administrator's name (mention all, if more than one name)					
Name: Assistant Professor Dr. Ammar Ali Oda					
Email: ammar_a_oda@hilla-unc.edu.iq					
8. Course Objectives					
<b>Course Objectives</b>		<p>To enable the student to understand the fundamentals and concepts of organic chemistry</p> <p>How to conduct chemical reactions based on theoretical principles</p>			
9. Teaching and Learning Strategies					
<b>Strategy</b>		<p>-Explanation and clarification</p> <p>Lecture method</p> <p>Model presentation method</p>			
10. Course Structure					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>

1	2 theoretical 3 practical	<b>Organic Chemistry Concepts: Alkanes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
2	2 theoretical 3 practical	<b>Alkane Reactions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
3	2 theoretical 3 practical	<b>Naming Alkanes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
4	2 theoretical 3 practical	<b>Structure Analysis and Free Rotation</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
5	2 theoretical 3 practical	<b>Cycloalkanes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
6	2 theoretical 3 practical	<b>Cycloalkanes Structure</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
7	2 theoretical 3 practical	<b>Preparation of Cycloalkanes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
8	2 theoretical 3 practical	<b>Cycloalkanes Reactions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
9	2 theoretical 3 practical	<b>Alkenes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
10	2 theoretical 3 practical	<b>Methods of Alkene Naming</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
11	2 theoretical 3 practical	<b>Methods of Alkene Preparation</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
12	2 theoretical 3 practical	<b>Exam</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
13	2 theoretical 3 practical	<b>Alkene Reactions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>

14	2 theoretical 3 practical	<b>Spectroscopic and Chemical Characterization of Alkenes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
15	2 theoretical 3 practical	<b>General Review</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
16	2 theoretical 3 practical	<b>Dienes</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
17	2 theoretical 3 practical	<b>Alkynes – Overview</b>	<b>Organic Chemistry</b>		
18	2 theoretical 3 practical	<b>Exam</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
19	2 theoretical 3 practical	<b>Methods of Alkyne Preparation</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
20	2 theoretical 3 practical	<b>Alkyne Reactions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
21	2 theoretical 3 practical	<b>Aromatic Compounds/Benzene</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
22	2 theoretical 3 practical	<b>Aromatic Conditions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
23	2 theoretical 3 practical	<b>Naming Benzene Derivatives</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
24	2 theoretical 3 practical	<b>Substitution Reactions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
25	2 theoretical 3 practical	<b>Electrophile</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
26	2 theoretical 3 practical	<b>Teaching Methods of Benzene Preparation</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>

27	2 theoretical 3 practical	<b>Industrial and Laboratory</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
28	2 theoretical 3 practical	<b>Examples and Solutions</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
29	2 theoretical 3 practical	<b>Review of Key Topics</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>
30	2 theoretical 3 practical	<b>Exam</b>	<b>Organic Chemistry</b>	<b>Lectures Theoretical and Practical</b>	<b>Oral and written tests</b>

## 11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student: monthly exams + weekly oral exams + scientific activities

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	<i>Organic Chemistry by Professor Dr. Fahd Ali Hussein</i> <i>Organic Chemistry by Professor Dr. Mahmoud Shaker Maktoo</i>
Main references (sources)	Morreson
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Arab Science Encyclopedia, Arab Book Forum