



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

**Industrial Chemistry Program****برنامج الكيمياء الصناعية****Study Plan****الخطة الدراسية**

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
1	GES111	Physical Geology	2	2	1	0	5	3	165	6
	BIO131	Biology I	2	2	0	0	4	3	150	6
	CHE111	Organic Chemistry	2	2	0	0	4	3	150	6
	PHY111	Physics I	2	2	0	0	4	3	150	6
	MAT111	Mathematics I	3	0	1	0	4	3	150	6
	UC1	University Requirement (1)	2	0	0	0	2	2	90	4
							<b>23</b>	<b>17</b>	<b>840</b>	<b>34</b>
2	CHE119	Laboratory Safety & Good Laboratory Practice	1	2	0	0	3	2	105	4
	CHE141	Physical Chemistry	2	2	0	0	4	3	150	6
	MAT112	Mathematics II	3	0	1	0	4	3	150	6
	MAT131	Probability and Statistics I	2	1	2	0	5	2	105	4
	E1	Elective Course (1)	2	2	0	0	4	3	150	6
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
						<b>24</b>	<b>17</b>	<b>840</b>	<b>34</b>	
3	BIO241	Biology II	2	2	0	0	4	3	150	6
	CHE221	Inorganic Chemistry	2	2	0	0	4	3	150	6
	PHY211	Physics II	2	2	0	0	4	3	150	6



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	E2	Elective Course (2)	1	2	0	0	3	2	105	4
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							<b>21</b>	<b>17</b>	<b>825</b>	<b>34</b>
4	CSE014	Structure Programming	2	3	0	0	5	3	150	6
	CHE213	Advanced Organic Chemistry [Dyes & Aromatic]	2	2	0	0	4	3	150	6
	CHE234	Analytical Chemistry I	2	2	0	0	4	3	150	6
	E3	Elective Course (3)	1	2	2	0	3	2	105	4
	E4	Elective Course (4)	1	2	0	0	3	2	105	4
	UC4	University Requirement (4)	2	0	0	0	2	2	90	4
	UE2	Elective University Requirement (2)	2	0	0	0	2	2	90	4
							<b>23</b>	<b>17</b>	<b>840</b>	<b>34</b>
5	CHE313	Heterocyclic Compounds	1	2	0	0	3	2	105	4
	CHE346	Thermochemistry & Kinetics	1	2	0	0	3	2	105	4
	CHE347	Electrochemistry & Surface Chemistry	1	2	0	0	3	2	105	4
	E5	Elective Course (5)	2	2	0	0	4	3	150	6
	E6	Elective Course (6)	1	2	0	0	3	2	105	4
	E7	Elective Course (7)	1	2	0	0	3	2	105	4
	UC6	University Requirement (6)	2	0	0	0	2	2	90	4
	UE3	Elective University (3)	2	0	0	0	2	2	90	4
							<b>23</b>	<b>17</b>	<b>855</b>	<b>34</b>
6	CHE314	Optical Organic Chemistry	1	2	0	0	3	2	105	4
	CHE315	Applied Organic Chemistry [Stereo, Lipids & Carbohydrates]	1	2	0	0	3	2	105	4



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	CHE330	Organometallic Chemistry	1	2	0	0	3	2	105	4
	CHE436	Industrial Chemicals	1	2	0	0	3	2	105	4
	CHE350	Glass, Ceramic & Cement	1	2	0	0	3	2	105	4
	CHE442	Catalysis	1	2	0	0	3	2	105	4
	MGT122	Principles of Management	3	1	0	0	4	3	150	6
	E8	Elective Course (8)	1	2	0	0	3	2	105	4
							<b>25</b>	<b>17</b>	<b>885</b>	<b>34</b>
7	CHE413	Agro-Based Industries & Industrial Processes	1	2	0	0	3	2	105	4
	CHE428	Practical Training & Internship	2	4	0	0	6	4	210	8
	CHE231	Quality Control & Iso Standards	1	2	0	0	3	2	105	4
	CHE417	Formulation Chemistry & Technology	1	2	0	0	3	2	105	4
	CHE430	Advanced Instrumental Analysis	2	1	0	0	3	2	105	4
	E9	Elective Course (9)	2	2	0	0	4	3	150	6
							<b>22</b>	<b>15</b>	<b>780</b>	<b>30</b>
8	CHE414	Unit Processes in Organic Chemistry	1	2	0	0	3	2	105	4
	CHE415	Petroleum & Polymer Processing	1	2	0	0	3	2	105	4
	CHE419	Graduation Project	2	4	0	0	6	4	210	8
	CHE418	Fine Chemicals for Pharmaceuticals	1	2	0	0	3	2	105	4
	E10	Elective Course (10)	1	2	0	0	3	2	105	4
	E11	Elective Course (11)	2	2	0	0	4	3	150	6
							<b>22</b>	<b>15</b>	<b>780</b>	<b>30</b>
							<b>183</b>	<b>132</b>	<b>6645</b>	<b>264</b>



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### Elective (E2, E3, E4)

ENV211	Principles of Ecology
BIO151	Entomology
BIO231	Vertebrates
CHE231	Quality Control
CHE241	Renewable Energy & Sustainability
CHE319	Journal Club
CHE318	Scientific Writing

### Elective (E1, E5)

BIO132	Developmental Biology
BIO211	Nucleic acid synthesis & metabolism
ENV111	Environmental Biology
PHY221	Introduction to Nanoscience
PHY281	Biophysics

### Elective (E9, E11)

CHE416	Inorganic Polymers
CHE337	Green Chemistry
CHE332	Laboratory & Industrial Hazards
CHE448	Nano-chemistry & Solar Energy
CHE495	Special Topic

### Elective (E6)

CHE317	Rubber, Detergents & Soap
CHE320	Chemistry of Pesticides

### Elective (E7, E8, E10)

CHE316	Textiles & Dyes
CHE345	Silicon Technology
CHE434	Membrane Technology & Its Application
CHE348	Fluid Flow, Heat & Mass Transfer
CHE349	Thermal & Nuclear Analysis
CHE446	Metal Corrosion & Its Protection
CHE343	Reactor Design
CHE432	Hazardous Waste Management