



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

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
							23	17	840	34
2	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	3	195	6
	UC2	University Requirement (2)	2	0	0	0	2	2	90	4
	UC3	University Requirement (3)	2	0	0	0	2	2	90	4
	UC7	University Requirement (7)	2	0	0	0	2	2	90	4
	UE1	Elective University (1)	2	0	0	0	2	2	90	4
							21	17	855	34
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
	CHE119	Laboratory Safety & Good Laboratory Practice	1	2	0	0	3	2	105	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY

جامعة العلمين الدولية
ALALAMEIN
INTERNATIONAL UNIVERSITY

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
		(Chemistry)								
	E1	Elective Course (1)	2	2	0	0	4	3	150	6
	E2	Elective Course (2)	1	2	0	0	3	2	105	4
	UC5	University Requirement (5)	2	0	0	0	2	2	90	4
							24	18	900	36
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	2	3	150	6
	E3	Elective Course (3)	1	2	0	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
							21	17	840	34
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)	1	2	0	0	4	2	105	4
	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
							23	16	810	32
6	CHE314	Optical Organic Chemistry	1	2	0	0	3	2	105	4



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



جامعة العلمين الدولية
ALALAMEIN
INTERNATIONAL UNIVERSITY

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	CHE315	Applied Organic Chemistry [Stereo, Lipids & Carbohydrates]	1	2	0	0	3	2	105	4
	CHE330	Organometallic Chemistry	1	2	0	0	3	2	105	4
	CHE436	Industrial chemistry	2	0	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
							25	17	885	34
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	1	2	0	0	3	2	105	4
	CHE417	Formulation Chemistry & Technology	1	2	0	0	3	2	105	4
	CHE430	Advanced Instrumental Analysis	1	2	0	0	3	2	105	4
	E9	Elective Course (9)	2	2	0	0	4	3	150	6
							22	15	780	30
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
						22	15	780	30	
							181	132	6690	264



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



جامعة العلمين الدولية
ALAMEIN
INTERNATIONAL UNIVERSITY



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



جامعة العلمين الدولية
ALAMEIN
INTERNATIONAL UNIVERSITY

Elective (E1)

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

Elective (E2, E3, E4)

ENV211	Principles of Ecology
CHE241	Renewable Energy & Sustainability
CHE319	Journal Club
CHE318	Scientific Writing

Elective (E6)

CHE316	Textiles & Dyes
CHE317	Rubber, Detergents & Soap
CHE320	Chemistry of Pesticides
CHE332	Laboratory & Industrial Hazards
CHE345	Silicon Technology

Elective (E5, E7, E8, E10)

CHE348	Fluid Flow, Heat & Mass Transfer
CHE349	Thermal & Nuclear Analysis
CHE446	Metal Corrosion & Its Protection
CHE343	Reactor Design
CHE432	Hazardous Waste Management

Elective (E9, E11)

CHE416	Inorganic Polymers
CHE448	Nano-chemistry & Solar Energy
CHE495	Special Topic
CHE434	Application of membrane technology and surface science