



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الاهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Public Health Sciences Program

برنامج علوم الصحة العامة

Study Plan

الخطة الدراسية

Common 4 Semesters

مشترك 4 فصول دراسية

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
1	BMS101	Anatomy and Physiology	2	0	2	0	4	3	150	5
	BMS144	Biochemistry for Health sciences	2	2	0	0	4	3	150	5
	PHS131	Basic Epidemiology	1	0	2	0	3	2	150	5
	PHS132	Medical terminology and Professional Writing	1	0	2	0	3	2	105	4
	PHS133	Professionalism in Public Health	2	0	0	0	2	2	105	4
	UC1	University Requirement (1)	2	0	0	0	2	2	105	4
	UC2	University Requirement (2)	2	0	0	0	2	2	105	4
	UE1	Elective University (1)	2	0	0	0	2	2	105	4
							22	18	975	35
2	PHS134	Health Psychology	1	0	2	0	3	2	90	3



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	CHE143	Environmental Chemistry for Public Health	2	1	0	0	3	2	105	4
	BMS171	Foundations of infections and infestations	3	2	0	0	5	3	165	5
	BMS135	Pathophysiology	3	0	0	0	3	3	105	4
	PHS135	Communication, behavioural change, and Sociocultural Dimensions	2	0	0	0	2	2	105	4
	UC3	University Requirement (3)	2	0	0	0	2	2	105	4
	UC4	University Requirement (4)	2	0	0	0	2	2	105	4
	UE2	Elective University (2)	2	0	0	0	2	2	105	4
							22	18	885	32
3	PHS211	Basics of Nutrition	2	0	2	0	4	3	150	5
	PHS251	Introduction to Healthcare Management	1	0	2	0	3	2	150	5
	PHS231	Research Methods in Public Health	1	0	2	0	3	2	150	5
	PHS261	Principles of Genomics	1	2	0	0	3	2	135	5
	PHS241	Healthcare Systems and primary Healthcare	2	0	0	0	2	2	105	4
	PHS232	Health Informatics	1	0	2	0	3	2	90	3
	MAT I10	Mathematics for health sciences	2	0	1	0	3	2	150	5
	UC5	University Requirement (5)	2	0	0	0	2	2	105	4
	UC6	University Requirement (6)	2	0	0	0	2	2	105	4
							25	19	1140	40
4	PHS233	Introduction to Communicable Diseases and	1	0	2	0	3	2	105	4



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
		Surveillance								
	PHS234	Introduction to Non-communicable diseases	2	0	2	0	4	3	150	5
	PHS235	Health Promotion and Education	2	0	0	0	2	2	105	4
	PHS236	Biostatistics	2	1	2	0	5	3	150	5
	PHS221	Introduction to Environmental and Occupational Health	2	3	0	0	5	3	150	5
	PHS200	Field Training Experience	0	4	0	0	4	1	90	3
	UC7	University Requirement (7)	2	0	0	0	2	2	105	4
	UE3	Elective University (3)	2	0	0	0	2	2	105	4
							27	18	960	34
Total for 4 Semesters							96	73	3960	141



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برنامج علوم الصحة العامة

Study Plan

الخطة الدراسية

1-Global Health Track

1-مسار الصحة العالمية

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	PHS311	Global Demographics and Burden of Disease	2	0	2	0	4	3	150	5
	PHS 312	Global Climate Change	2	0	0	0	2	2	105	4
	PHS321	Air and Water Pollution	1	3	0	0	4	2	105	4
	PHS329	Health Determinants	1	0	2	0	3	2	135	5
	PHS333	Prevention and control: Vaccines and Immunization	1	0	2	0	3	2	105	4
	E1	Elective Course (1)	2	0	1	0	3	3	135	5
							19	14	735	27
6	PHS347	Health Risk Assessment and Management	2	0	2	0	4	3	150	5
	PHS313	International Studies in Public health	2	0	2	0	4	3	135	5
	PHS314	Health Inequities	2	0	2	0	4	3	135	5
	PHS315	Communicable Disease Prevention and Control	2	0	2	0	4	3	105	4
	PHS317	Health and Liveability	2	0	0	0	2	2	135	5
	E2	Elective Course (2)	2	0	0	0	2	2	90	4



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
							20	16	750	28
Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
7	PHS431	Humanitarian Assistance	1	0	2	0	3	2	135	5
	PHS343	Health Economics	3	0	2	0	5	4	165	6
	PHS411	Maternal, Neonatal, Child and adolescent Health	2	0	2	0	4	3	150	5
	E3	Elective Course (3)	2	0	1	0	3	3	135	5
	E4	Elective Course (4)	2	0	0	0	2	2	90	4
							17	14	675	25
8	PHS412	Sexual and Reproductive Health	2	0	2	0	4	3	150	5
	PHS414	Gender-based Violence Research, Practice and Policy	1	0	2	0	3	2	135	5
	PHS439	Evidence Based Practice	1	0	2	0	3	2	135	5
	PHS413	NCDs, Mental and Geriatric Health	1	0	2	0	3	2	150	5
	PHS400	Capstone Project	0	12	0	0	12	4	150	5
	E5	Elective Course (5)	2	0	0	0	2	2	90	4
							27	15	810	29
Total for 4 Semesters							83	59	2970	109
							179	132	693	250



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Elective (E1)

- PHS313 International studies
- PHS316 Global Politics of Public Health
- PHS341 Cultural Competency in Healthcare Administration
- PHS318 Mortality surveillance methods and strategies

Elective (E2)

- PHS435 Preparing dataset for analysis
- PPP525 Patient safety and informatics
- PPP529 Project management in clinical trials

Elective (E5)

- PHS323 Management of mass gatherings
- PHS336 Questionnaire design and validation

Elective (E3)

- PHS421 Environmental policy, laws, and management
- PHS422 Organizational behavior and change
- PHS341 Cultural Competency in Healthcare Administration
- PHS416 Mass communication in public health
- PHS418 Community social and behavioural interventions

Elective (E4)

- MAT316 Statistical modelling
- PPP202 Pharmacy administration
- PHS323 Management of mass gatherings
- PHS319 Motivational interviewing in public health setting



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الخطة الدراسية

2-Environmental Health Track

2-مسار الصحة البيئية

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	PHS322	Food Safety, Food security and Surveillance of Foodborne Disease	2	0	0	0	2	2	105	4
	PHS312	Global Climate Change	2	0	0	0	2	2	105	4
	PHS324	Occupational Safety	2	2	0	0	4	3	150	5
	PHS325	Health Geography	2	0	2	0	4	3	150	5
	PHS326	Air Quality Management	2	2	0	0	4	3	150	5
	E1	Elective Course (1)	2	0	0	0	2	2	90	4
	E2	Elective Course (2)	2	0	0	0	2	2	90	4
							20	17	840	31
6	ENV312	Hazardous Waste Management	2	0	2	0	4	3	150	5
	PHS328	Water Quality and Disease Control	2	3	0	0	5	3	150	5
	ENV313	Geographic Information Systems and Spatial Analysis	2	3	0	0	5	3	150	5
	ARC229	Green Cities and the Built Environment	2	2	0	0	4	3	150	5



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	PHS317	Health and Liveability	2	0	0	0	2	2	135	5
	E3	Elective Course (3)	2	0	0	0	2	2	90	4
	E4	Elective Course (4)	2	0	0	0	2	2	90	4
								24	18	915
Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
7	PHS421	Environmental Policy, laws, and Management	2	0	2	0	4	3	150	5
	PHS422	Organizational Behaviour and change	2	0	2	0	4	3	150	5
	PHS423	Microbiological and Chemical Sampling and Analysis	2	2	0	0	4	3	150	5
	PHS424	Capstone Project 1	3	0	0	0	3	3	90	3
								15	12	540
8	PHS442	Human Resource Management	2	0	2	0	4	3	150	5
	PHS426	Ecosystems Management	2	2	0	0	4	3	180	7
	PHS427	Environmental Risk Assessment	2	2	0	0	4	3	150	3
	PHS428	Capstone Project 2	3	0	0	0	3	3	90	3
								15	12	570
Total for 4 Semesters							74	59	2865	100
All							170	132	6825	241



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Elective (E1)

PHS425 Industrial psychology
PHS323 Management of mass gatherings
PHS319 Motivational interviewing in public health setting

Elective (E2)

PHS435 Preparing dataset for analysis
PPP525 Patient safety and informatics
PPP529 Project management in clinical trials

Elective (E3)

MAT316 Statistical modelling
PHS323 Management of mass gatherings
PHS319 Motivational interviewing in public health settings.

Elective (E4)

MAT316 Statistical modelling
PPP202 Pharmacy administration



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**Public Health Sciences Program****برنامج علوم الصحة العامة****Study Plan****الخطة الدراسية****3-Epidemiology and Biostatistics Track****3-مسار الوبائيات والإحصاء الحيوي**

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
	MAT316	Statistical Modelling	2	3	0	0	5	3	150	3
5	PHS331	Advanced Epidemiologic Methods	1	3	2	0	4	3	150	3
	PHS333	Prevention and Control: Vaccines and immunization	2	0	0	0	2	2	105	4
	PHS334	Epidemiology of Non-Communicable Diseases, mental health, and ageing	1	0	2	0	3	2	135	2
	BMD310	Introduction to Programming for Biostatisticians	1	3	0	0	4	2	135	4
	E1	Elective Course (1)	2	0	1	0	3	3	135	5
							21	15	810	21
6	PHS315	Communicable Disease Prevention and Control	2	0	2	0	4	3	105	4
	BMD320	Data Analysis Using R	2	2	0	0	4	3	150	5
	PHS336	Questionnaire Design and Validation	1	3	0	0	4	2	135	2
	PHS337	Cancer Epidemiology	1	0	2	0	3	3	135	3
	PHS338	Molecular and Genetic Epidemiology	1	3	2	0	6	3	150	5
	E2	Elective Course (2)	2	0	1	0	3	3	135	5



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
							24	17	810	24

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
7	PHS433	Clinical Trials Design and Analysis	1	3	2	0	6	3	150	5
	PHS434	Systematic Reviews and Meta-analysis	1	3	2	0	6	3	150	5
	PHS435	Data Analysis in Genetic Studies	1	3	2	0	6	3	150	3
	PHS436	Outbreak Investigation	1	3	2	0	6	3	150	3
	E3	Elective Course (3)	2	0	0	0	2	2	90	4
							26	14	690	20
8	PHS437	Psychosocial Epidemiology	1	0	2	0	3	2	150	3
	PHS438	Qualitative Research	1	3	2	0	6	3	135	5
	PHS439	Evidence Based Practice	1	0	2	0	3	2	135	5
	E4	Elective Course (4)	2	0	0	0	2	2	90	4
	PHS400	Capstone Project	0	12	0	0	12	4	150	5
							26	13	660	22
Total for 4 Semesters							97	59	2970	87
All							193	132	6930	228



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Elective (E1)

- PHS419 Reproductive and perinatal epidemiology
- PHS316 Global politics of public health
- PHS318 Mortality surveillance methods and strategies
- PHS419 cultural competency and health administration

Elective (E2)

- PHS418 Community social and behavioral interventions
- PHS325 Health geography
- PHS442 Human resource management

Elective (E3)

- PHS332 Clinical epidemiology
- PHS435 Preparing dataset for analysis
- PPP525 Patient safety and informatics
- PPP529 Project management in clinical trials
- PHS323 Management of mass gatherings
- PHS319 Motivational interviewing in public health setting

Elective (E4)

- MAT316 Statistical modelling
- PPP202 Pharmacy administration
- PHS317 Health and livability



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**Public Health Sciences Program****برنامج علوم الصحة العامة****Study Plan****الخطة الدراسية****4-Healthcare Management Track****4-مسار إدارة الرعاية الصحية**

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	ACC113	Introduction to Accounting (For Non-Business Students)	2	1	0	0	3	2	105	4
	FIN231	Finance	3	0	1	0	4	3	150	5
	PHS314	Health Inequities	1	0	2	0	3	2	135	5
	PHS341	Cultural Competency in Healthcare Administration	2	0	2	0	4	3	150	5
	PHS342	Health Care Ethics & Law	2	0	2	0	4	3	150	5
	E1	Elective Course (1)	2	0	0	0	2	2	90	4
							20	15	780	28
6	PHS 343	Health Economics	3	0	2	0	5	4	165	6
	MGT320	Leadership and Strategic Management	2	0	2	0	4	3	150	5
	PHS345	Health Care Quality Management	2	0	2	0	4	3	150	5
	MKT241	Marketing	3	0	2	0	5	3	165	6
	E2	Elective Course (2)	3	0	0	0	3	3	90	4
						21	16	720	26	



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS	
7	PHS441	Research Methods in Health Administration	3	2	0	0	5	4	165	6	
	PHS442	Human Resource Management	2	0	2	0	4	3	150	5	
	PHS443	Project Management in Health systems	2	0	2	0	4	3	150	5	
	PHS444	Inter professional Collaboration	3	0	0	0	3	3	150	5	
	E3	Elective Course (3)	2	0	0	0	2	2	90	4	
								18	15	705	25
8	PHS445	Professional Practice Internship	6	0	0	0	6	6	105	4	
	PPP525	Patient safety Informatics	2	0	0	0	2	2	90	4	
	E4	Elective Course (4)	2	0	1	0	3	3	135	5	
	E5	Elective Course (5)	2	0	0	0	2	2	90	4	
								13	13	420	17
Total for 4 Semesters							72	59	2625	96	
All							168	132	6585	237	



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Elective (E1)

PPP202	Pharmacy administration
PPP201	Pharmacoeconomics
PHS317	Health and livability
PHS323	Management of mass gatherings

Elective (E2)

PHS435	Preparing dataset for analysis
PPP525	Patient safety and informatics
PPP529	Project management in clinical trials

Elective (E5)

PHS317	Health and livability
PHS323	Management of mass gatherings
PHS336	Questionnaire design and validation

Elective (E3)

MAT316	Statistical modeling
PPP202	Pharmacy administration
PHS317	Health and livability
PHS323	Management of mass gatherings
PHS319	Motivational

Elective (E4)

PHS421	Environmental policy, laws, and management
PHS422	Organizational behaviour and change
PHS341	Cultural Competency in Healthcare Administration
PHS416	Mass communication in public health
PHS418	Community social and behavioural interventions



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**Public Health Sciences Program****برنامج علوم الصحة العامة****Study Plan****الخطة الدراسية****5-Public Health Nutrition Track****5-مسار التغذية في الصحة العامة**

Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	PHS351	Human Nutrition & Metabolism	2	0	2	0	4	3	150	5
	PHS352	Assessment of nutrition status	2	3	0	0	5	3	105	4
	PHS357	Obesity Control and Prevention	2	0	2	0	4	3	150	5
	PHS322	Food Safety, Food security and Surveillance of Food borne Disease	2	0	0	0	2	2	150	5
	E1	Elective Course (1)	2	0	0	0	2	2	90	4
	E2	Elective Course (2)	2	0	0	0	2	2	90	4
							19	15	735	27
6	PHS 353	Nutrition Along Lifecycle	2	0	2	0	4	3	150	5
	PHS 354	Theories & Techniques of Nutrition Education	2	0	2	0	4	3	150	5
	PHS 355	Community and Public health Nutrition	2	0	2	0	4	3	150	5
	PHS 356	Clinical Nutrition 1	2	3	0	0	5	3	165	6
	PHS317	Health and Liveability	2	0	0	0	2	2	135	5
	E3	Elective Course (3)	2	0	0	0	2	2	90	4
						21	16	840	30	



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
7	PHS451	Diet and Meal Planning	1	3	0	0	4	2	105	4
	PHS452	Nutrition and Non-Communicable diseases	2	0	0	0	2	2	165	6
	PHS453	Clinical Nutrition 2	2	3	0	0	5	3	150	5
	PHS454	Food chemistry and analysis	2	3	0	0	5	3	150	5
	PHS455	Nutrition Seminar	1	0	2	0	3	2	105	4
	E4	Elective Course (4)	2	0	0	0	2	2	90	4
								21	14	765
8	PHS456	Food technology	2	3	0	0	5	3	150	5
	PHS457	Malnutrition and Nutrition Intervention	2	0	0	0	2	2	105	4
	E5	Elective Course (5)	2	0	0	0	2	2	90	4
	E6	Elective Course (6)	2	0	1	0	3	3	135	5
	PHS458	Capstone Project	0	12	0	0	12	4	180	7
								24	14	660
Total for 4 Semesters							85	59	3000	110
All							181	132	6960	251



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Elective (E1)

PHS316	Global politics of Public Health
PHS359	Food marketing and consumer behavior
PHS358	Food laws and regulations

Elective (E2)

PHS416	Mass communication in public health
PPP525	Patient safety and informatics
PPP529	Project management in clinical trials

Elective (E5)

PHS323	Management of mass gatherings
PHS336	Questionnaire design and validation

Elective (E3)

MAT316	Statistical modelling
PPP202	Pharmacy administration
PHS323	Management of mass gatherings

Elective (E4)

PHS459	Nutritional genomics
PHS319	Motivational interviewing in public health setting
PHS358	Food laws and regulations

Elective (E6)

PHS421	Environmental policy, laws, and management
PHS422	Organizational behavior and change
PHS341	Cultural Competency in Healthcare Administration
PHS416	Mass communication in public health
PHS418	Community social and behavioural interventions



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS
5	PHS361	Cellular and molecular biology I	1	3	2	0	6	3	150	5
	PHS362	Human immunology and immune markers	1	3	0	0	4	2	135	5
	PHS363	Legal, ethical & Social Issues in Applied Genetics	1	0	2	0	3	2	105	4
	PHS327	Microbes, Man, and the environment	1	3	0	0	4	2	105	4
	PHS364	Structure and Function of the Human Genome	1	3	2	0	6	3	165	6
	E1	Elective Course (1)	2	0	0	0	2	2	90	4
							25	14	600	28
6	PHS365	Path physiology II From Tissues to Organ Systems and healthy Humans	1	3	0	0	4	2	135	5
	BIO316	Gene Expression Analysis	2	2	0	0	4	3	150	5
	BIO332	Evolutionary Genomics	2	2	0	0	4	3	105	4
	BMD310	Introduction to programming for biostatisticians	1	3	2	0	6	2	135	5
	PHS368	Genome sequencing technology	1	3	2	0	6	3	105	4
	PHS369	Genome Wide Association Studies	1	3	2	0	6	3	165	6



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Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS	
	E2	Elective Course (2)	2	0	0	0	2	2	90	4	
							32	18	885	33	
Semester	Code	Course Name	LCT	LAB	TUT	OTH	CNTCT	CH	SWL	ECTS	
7	PHS461	Genetic Susceptibility to Disease	1	3	2	0	6	3	135	5	
	BMD320	Data Analysis using R	2	2	0	0	4	3	150	5	
	PHS462	Data Analysis in Genetic Studies	1	3	2	0	6	3	150	5	
	E3	Elective Course (3)	2	0	1	0	3	3	135	5	
							19	12	570	20	
8	PHS463	Genetic Risk Assessment and Counselling	1	3	2	0	6	3	150	5	
	PHS464	Targeted Drug Development and Pharmacogenomics	1	3	2	0	6	3	150	5	
	PHS465	Future Healthcare Models	1	0	2	0	3	2	105	4	
	PHS466	Predictive Multigene Assays	1	3	0	0	4	2	150	5	
	E4	Elective Course (4)	0	12	0	0	12	2	150	5	
	PHS467	Capstone Project	0	9	0	0	9	3	150	5	
							40	15	855	29	
Total for 4 Semesters							116	59	2910	110	
							All	212	132	6870	251



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Elective (E1)

PHS317	Health and livability
PHS319	Motivational interviewing in public health setting
PHS416	Mass communication in public health
PHS417	Survival analysis
PHS469	Introduction to experimental biology

Elective (E2)

PHS366	Library preparation for sequence analysis
PHS468	Introduction to metabolomics
PHS459	Nutritional genomics
PPP529	Project management in clinical trials

Elective (E3)

PHS337	Cancer epidemiology
PHS316	Global Politics of Public Health
PHS418	Community social and behavioral intervention
PHS433	Clinical trials design and analysis

Elective (E4)

PHS367	Introduction to proteomics and mass spectrometry
PHS323	Management of mass gatherings
PHS319	Motivational interviewing in public health setting
PHS366	Library preparation for sequence analysis
PHS468	Introduction to metabolomics
PHS459	Nutritional genomics