# Faculty of Graduate Studies Department Of Health Sciences



الجامعة العربية الأمريكية كلية الدراسات العليا قسم العلوم الصحية

A. COURSE INFORMATION AND TEACHING STAFF									
	Name		RESEARCH METHODOLOGY AND SCIENTIFIC WRITING						
	Code		151536110						
1 Course	Activity		Lecture						
1. Course	Credit hours Semester		3						
			Spring 2022/2023						
	Pre-red	quisite	No Pre-Re						
2. Teaching	Section	Building	Room	Room Day Time		Instructor	Office hours		
staff, time and location	1	AFS	023	S	08:30-11:30	Dr.Mohannad Mahmoud Ahmad Khader mohannad.khader@aaup.edu	N 12:30 - 13:50 MTWTh 11:30 - 12:30		

	B. COURSE POLICIES
	Attendance is required; and university regulations in this regard are strictly applied. It is important to note the following:
	<ol> <li>The student is expected to follow all announcements issued by the university, faculty, department as well as the course instructor through the official channels. It is the student's full responsibility to get aware of these announcements and to react accordingly.</li> </ol>
1. Commitment and Attendance	<ol> <li>The student has to communicate electronically with the course instructor, whenever needed, through the official channels exclusively which are limited to the AAUP email and Moodle messages only.</li> </ol>
	3. The student is expected to attend all classes* and to arrive at classroom on time.
	<ol> <li>If the instructor is late for class, the student must wait for at least 10 minutes before leaving the classroom.</li> </ol>
	<ol><li>Absence by more than 25% of classes leads to an automatic withdrawal from the course (the grade W is assigned).</li></ol>
	The student must perform all course assessment activities, i.e. assignments, quizzes, exams etc. It is important to note the following:
Performance of assessment activities	<ol> <li>Absence from an exam or a quiz other than the final exam leads to a zero mark in that exam or quiz. An exception allowing a makeup is made for a student submitting a legitimate excuse that is accepted by the instructor in a timely manner.</li> </ol>
accessino in activities	<ol> <li>Absence from the final exam leads to an FA grade that eventually turns to an F grade. An exception allowing a makeup exam is made if the student submits an official excuse that is accepted by the Academic Affairs in compliance with the university regulations.</li> </ol>

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#### Course Syllabus

	The student is expected to be honest during the performance of assessment activities. While not limited to the list below, the following actions are examples of cheating:						
3. Academic Integrity	Copying from other students.						
	<ol><li>Using materials that are not authorized by the proctor during quizzes or exams.</li></ol>						
	<ol><li>Collaborating with other students during quizzes or exams.</li></ol>						
	4. Stealing or buying the content of exams, quizzes, and assignments.						
	5. Stealing ideas and work of others and presenting them as that of the student						
	The university uses the letter grading system. It is important to note the following:						
4. Grading	<ol> <li>The passing grade is D, and the corresponding score (out of 100) is determined at the end of the semester.</li> </ol>						
	2. At the end of the semester, the scale of scores is determined by converting each						
5. Learning and teaching methods							

#### C. COURSE DETAILS

## 1. Course description & purpose

This course prepares graduate students in Medical Laboratory Sciences to critically analyze professional literature with a focus on research design, methodology, implementation and statistical analysis. This course will facilitate the development of scholarly writing skills to communicate a critical analysis of the evidence with an application to practice. Various research designs will be introduced that include experimental and non-experimental as well as qualitative and quantitative designs. The course also aims at stressing the importance and needs for research in health practice. It prepares students to plan and carry out research projects during their master studiesand in their future career. Students will learn data collection techniques, develop a basic vocabulary of biostatistics terms, and recognize the usefulness and limitation of biostatistics. They will also be introduced to concepts and techniques needed to describe, and analyze medical data; develop basic scientific writing skills and ability to use the computer software to conduct possible calculations and graphs.

		Upon the completion of the course, students will be able to achieve the following learning outcomes:
	CLO1	Define research related concepts
	CLO2	Find scientific literature databases
	CLO3	Classify research methods
2. Course learning outcomes (CLOs)	CLO4	Describe types of research publications
	CLO5	Determine research methods followed in selected research publication
	CLO6	Conduct literature search in the databases
	CLO7	Design a preliminary research proposal

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#### Course Syllabus

		Upon the completion of the course, students will be able to achieve the following learning outcomes:							
	CLO8	Demonstrate ability to criticise specialized scientific research articles							
2. Course learning outcomes (CLOs)	CLO9	Discuss his research prop	oosal with a wor	k group					
	CLO10	Initiate a discussion on re	Initiate a discussion on research methods within a work group						
	CLO11	Mimic writing a thesis							
		Assessment tool	Weight %	CLOs	Due week				
		Mid. Term	20%	1,2,3,4					
		Assignment	20%	5,6,8					
3. Assessments		Final Exam	35%	1,2,3,4,5,6,7,8,9,10					
		Activity	10%	6,10					
		Proposal	15%	7,9					
		Total	100%						

null

	Outcomes	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	9 OTO	CLO 7	CLO 8	6 OTO	CLO 10	CLO 11
ment	- Activity						<b>√</b>				<b>√</b>	
assessi	- Assignment					<b>√</b>	<b>√</b>		<b>√</b>			
4. CLOs assessment	- Final Exam	<b>√</b>										
4	- Mid. Term	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>							
	- Proposal							<b>√</b>		<b>√</b>		

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	Week	Topics	Study material	Assignment	CLOs
	1	Research: The Search for Knowledge	Research Methodology and Scientific Writing C. George Thomas Second Edition		1
	2	Philosophy of Research	Research Methodology and Scientific Writing C. George Thomas Second Edition		1
	3	Approaches to Research	Research Methodology and Scientific Writing C. George Thomas Second Edition		1
5. Course schedule	4	Major Research Methods	Research Methodology and Scientific Writing C. George Thomas Second Edition		3,4,5
Concadio	5	Experimental Research	Research Methodology and Scientific Writing C. George Thomas Second Edition		3,4
	6	Collection and Analysis of Data	Research Methodology and Scientific Writing C. George Thomas Second Edition		5,6,8
	7	Planning and writing a Research Proposal	Research Methodology and Scientific Writing C. George Thomas Second Edition		7
	8	Planning and writing a Research Proposal			7
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	Week	Topics	Study material	Assignment	CLOs
	9	Publications and the Library	Research Methodology and Scientific Writing C. George Thomas Second Edition		6
	10	Academic Databases	Research Methodology and Scientific Writing C. George Thomas Second Edition		2,4,6
	11	The Literature Review	Research Methodology and Scientific Writing C. George Thomas Second Edition		6,7,9
5. Course schedule	12	Preparation of Research Papers and Other Articles	Research Methodology and Scientific Writing C. George Thomas Second Edition		8
	13	The Structure of a Thesis	Research Methodology and Scientific Writing C. George Thomas Second Edition		7,9,10, 11
	14	Tables and Illustrations	Research Methodology and Scientific Writing C. George Thomas Second Edition		7,11
	15	References: How to Cite and List Correctly	Research Methodology and Scientific Writing C. George Thomas Second Edition		7,11
	16	Final Exam			1,2,3,4, 5,6,7,8, 9,10,11

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	D. COURSE MATERIAL
1. Textbook	Research Methodology and Scientific WritingC. George ThomasSecond Edition
2. Reference material	
3. Internet resources	https://pubmed.ncbi.nlm.nih.gov/https://www.researchgate.net/https://scholar.google.com/