



Field Experience Specification

Course Title: **Co-op Training**

Course Code: **APAC2901**

Program: **Aquaculture Technologies**

Department:

College: **Applied College**

Institution: **Umm Al-Qura university**

Field Experience Version Number: **Version 2**

Last Revision Date: **December 2024**



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A. Field Experience Details:

1. Credit hours:		
6 Credit Hours		
2. Level/year at which Field Experience is offered:		
Level 2 / 1 st year		
3. Time allocated for Field Experience activities		
(15 weeks)	(75 days)	(450 hours)
4. Corequisite (or prerequisites if any) to join Field Experience		
None		
5. Mode of delivery		
<input checked="" type="checkbox"/> In-person/onsite	<input type="checkbox"/> hybrid (onsite/online)	<input type="checkbox"/> Online

B. Field Experience Course Learning Outcomes (CLOs), Training Activities and Assessment Methods

Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
1.0	Knowledge and understanding				
1.1	Become familiar with various microbiological techniques used in related industry, and recognize the role of microbiologist	K1, K2, K3	<p>(A)- For clinical field training option:</p> <p>(1)- Work on how to analyze clinical specimens microbiologically</p> <p>(2)- Work on how to analyze clinical samples (biochemistry, blood analysis, serologically)</p> <p>(3)- Applying Quality assurance issues at clinical laboratories</p>	<p>After the completion of training:</p> <p>(A)- Written report (15 %)</p> <p>(B)- Seminar (Departmental) (20 %)</p>	





Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
			<p>(4)- Practicing infection control issues</p> <p>(B)- For public health / environmental health field training option:</p> <p>(1)- Work on analyzing food and water samples collected from food outlets microbiologically</p> <p>(2)- practice hygiene inspection methods at food outlets</p> <p>(3)- Practice hygiene inspection methods at hair saloons</p> <p>(4)- Practice sample collection from food outlets and water supplies for microbiological evaluation</p> <p>(C)- For food / dairy / bottled water / pharmaceutical factories option:</p> <p>(1)- Practice microbiological quality control issues for raw</p>		



Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
			<p>material used in production</p> <p>(2)- Practice microbiological quality control issues for production lines</p> <p>(3)- Practice microbiological quality control issues postproduction prior to market distribution</p>		
2.0	Skills				
2.1	Develop practical knowledge and skill in his chosen area	S1			
2.2	Get familiar with practical problems during field condition and to overcome it	S2			
2.3	Able to decide their job prospects in various practical domains where microbiologist can contribute	S3			



Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
2.4	Be able to develop research problem for higher studies	S4			
3.0	Values, autonomy, and responsibility				
3.1	Develop skill to coordinate teamwork and to report individually	V2			

*Assessment methods (i.e., practical test, field report, oral test, presentation, group project, essay, etc.).



C. Field Experience Administration

1. Field Experience Flowchart for Responsibility

Including units, departments, and committees responsible for field experience identifying by the interrelations.

2. Distribution of Responsibilities for Field Experience Activities

Activities	Department or College	Teaching Staff	Student	Training Organization	Field Supervisor
Selection of a field experience site	✓		✓		
Selection of supervisory staff	✓				
Provision of the required equipment	✓			✓	
Provision of learning resources	✓			✓	
Ensuring the safety of the site	✓	✓		✓	✓
Commuting to and from the field experience site			✓		
Provision of support and guidance		✓			✓
Implementation of training activities (duties, reports, projects ...)		✓	✓		✓
Follow up on student training activities		✓			✓
Monitoring attendance and leave		✓			✓
Assessment of learning outcomes		✓			✓
Evaluating the quality of field experience		✓	✓		
Others (specify)					

3. Field Experience Location Requirements

Suggested Field Experience Locations	General Requirements*	Special Requirements**
National Aquaculture Group		
Topian Fisheries		

*E.g. provides information technology, equipment, laboratories, halls, housing, learning sources, clinics ... etc.

** E.g. Criteria of the institution offering the training or those related to the specialization, such as safety standards, dealing with patients in medical specialties ... etc.

4. Decision-Making Procedures for Identifying Appropriate Locations for Field Experience

- (1)- The co-op training and professional development committee at the Department of Biology responsible for identifying and locating site/institutions for field experience based on the nature of the institution and relatedness to the program
- (2)- The committee will communicate with the official of the institution/site for field training to arrange for the acceptance of students to have their field experience
- (3)- Student may propose a location or a site for field experience, the committee will review the site proposed by the students and evaluate the nature of their work and then approve/disapprove this request.
- (4)- The committee will report to the Department the number of students and the locations which they have their field experience

5. Safety and Risk Management

Potential Risks	Safety Actions	Risk Management Procedures
Biohazards	Keeping track of laboratory hazards, including biohazards	Followed according to standards set by the field experiences site
Wrong handling of samples	Clearly labelling microbiological cultures, clinical and environmental specimens	Followed according to standards set by the field experiences site
Wrong handling of chemicals	Neutralizing and disposing unwanted materials and used chemicals and disposables according to standard procedures	Followed according to standards set by the field experiences site



D. Training Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Student Feedback on Effectiveness of Training	The students	Questionnaires Open discussion at the end of the training period
Evaluation of Training	The staff members or by the Department	Final report of training course

Evaluation areas (e.g., Effectiveness of Training and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Supervisory Staff, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

E. Specification Approval Data

Council /Committee	Umm Al-Qura University Council
Reference No.	851141114462/190390
Date	446/11/22

