Field Experience Specification

Course Title:	**Research Project**
Course Code:	**BCH 493**
Program:	**Bachelor Program**
Department:	**Biochemistry**
College:	**Science**
Institution:	**King Saud University**
Field Experience Version Number:	*Course Specification Version Number*
Last Revision Date:	*Pick Revision Date.*

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A. Field Experience Details:

1. Credit hours: (2(0+0+4)).		
2. Level/year at which Field Experience is offered: (8th level, year 4).		
3. Time allocated for Field Experience activities		
(.....)Weeks	(.....)Days	(.....)Hours
4. Corequisite (or prerequisites if any) to join Field Experience		
BCH 484 and finishing 115 hr		
5. Mode of delivery		
☐In-person/onsite	☒ hybrid (onsite/online)	☐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	Designing and execution of a research study	K4	Concept of hypothesis and rationale	Written report and oral exam	
1.2	Learning the importance of literature survey	K1-K6	Use of online resources (PubMed) and research articles	Written report	
1.3	Gaining proficiency in laboratory techniques	K5, K6	Laboratory manuals	Written report and oral exam	
1.4	Ability in data analysis and interpretation	K6	Use of SPSS and Excel for data analysis	Written report and oral exam	
1.5	Preparation of written reports, poster and oral presentation	K6	Strategy for Power point presentation and poster	Oral and poster presentations	
2.0	**Skills**				

Code	Learning Outcomes	Aligned PLO Code	Training Activities	Assessment Methods	Assessment Responsibility
2.1	Study design	S1, S3	Discussions about concept of hypothesis and rationale of study	Viva	
2.2	Literature survey and discussion	S2	Background information about to topic of research	Written report	
2.3	Biochemical analysis	S1	Basic principle of assay and the operation of laboratory instruments	Written report	
2.4	Data analysis, interpretation and presentation	S3,S4	Statistical methods of data analysis. Preparation of poster and presentation slides.	Oral presentation	
3.0	**Values, autonomy, and responsibility**				
3.1	Ability of independently designing a research project	V1	Clarify the background, aim at specific objectives, significance of research and execution strategy	Written report and Viva	
3.2	Use of web resources for literature search	V2, V3	PubMed, Science Direct, and other search engines	Written report	
3.3	Proper understanding of good laboratory practices	V4	Laboratory manuals	Viva	
3.4	Familiarity with research ethics	V4	Ethics guidelines	Viva	

*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**
	Classrooms	Data show
	□ Laboratory / Demonstration	Smart board
		Software

*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

5. Safety and Risk Management

Potential Risks	Safety Actions	Risk Management Procedures

D. Training Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods

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	Accreditation committee
Reference No.	Session number 5 (academic year 20/21)
Date	11 Feb 2021