



# Course Specification

## (Bachelor)

Course Title: **Ophthalmic Dispensing III**

Course Code: **APOP4105**

Program: **Optician Diploma**

Department: *Enter Department Name .*

College: **Applied Collage**

Institution: **Umm-Al-Qura University**

Version: **1**

Last Revision Date: **8 December 2024**



## Table of Contents

A. General information about the course: .....	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods .....	4
C. Course Content .....	5
D. Students Assessment Activities .....	6
E. Learning Resources and Facilities .....	6
F. Assessment of Course Quality .....	7
G. Specification Approval .....	7



## A. General information about the course:

### 1. Course Identification

#### 1. Credit hours: ( 4h )

4 credit hrs = 3 theoretical + 1 practical

#### 2. Course type

- A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
- B. ☒ Required ☐ Elective

#### 3. Level/year at which this course is offered: ( 2<sup>st</sup> level / 2<sup>nd</sup> year )

#### 4. Course General Description:

Ophthalmic Dispensing III is an advanced-level course designed to provide students with in-depth knowledge and practical skills in the fabrication, adjustment, and troubleshooting of ophthalmic lenses and frames.

#### 5. Pre-requirements for this course (if any):

Ophthalmic Dispensing II (APOP3103 )

#### 6. Co-requisites for this course (if any):

NA

#### 7. Course Main Objective(s):

**Be the end of the course, students should to:**

- 1- Equip students with knowledge of advanced lens materials, designs, and coatings.
- 2- Train students in sophisticated techniques for lens fitting, adjustment, and verification. Provide expertise in the application of advanced tools and technologies for precision dispensing.
- 3- Develop the ability to recommend and dispense specialized eyewear for sports, safety, and occupational needs.
- 4- Teach students to troubleshoot complex dispensing problems and ensure quality control in lens production.

### 2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	52
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> <li>Traditional classroom</li> <li>E-learning</li> </ul>		
4	Distance learning		
5	Lab	42	48

### 3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	<b>Lectures</b>	45
2.	<b>Laboratory/Studio</b>	42
3.	<b>Field</b>	
4.	<b>Tutorial</b>	
5.	<b>Others (specify)</b>	
<b>Total</b>		<b>87</b>

### B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Understand advanced concepts of lens designs, materials, and optical treatments.	K1	Interactive Lecturing	Examinations
1.2	Explain quality control processes and professional standards in ophthalmic dispensing	K4	Interactive Lecturing	Examinations
<b>2.0</b>	<b>Skills</b>			
2.1	Accurately measure, fit, and adjust ophthalmic lenses and frames for diverse patient needs.	S1	Interactive Lecturing Lab	Written exam Practical exam
2.2	Use advanced optical instruments to ensure precision and troubleshoot issues.	S3	Interactive Lecturing Labs	Written exam Practical exam
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			
3.1	Commit to continuous learning and staying updated on new technologies and industry trends.	V2	• Research activities	Participation Reports
3.2	Work cooperatively in a small group environment	V1	Lab activities	Participation Reports

### C. Course Content

No	List of Topics	Contact Hours
1.	Advanced Ophthalmic Lens Materials	6
2.	Aspheric and Freeform Lens Technology	6
3	Progressive Addition Lenses (PALs)	6





4	Lens Coatings and Treatments	6
5	Frame Materials and Design Innovations	6
6	Safety glasses, sports eyewear, and computer vision glasses.	6
7	Measurements for customized lenses, vertex distance, and pantoscopic tilt.	6
8	Addressing specific needs of these populations.	6
9	Dispensing magnifiers, telescopes, and other aids.	6
10	Lensometers, pupillometers, and automated edging machines.	6
11	Quality Assurance in Lens Production	6
12	Resolving complaints such as poor vision, discomfort, and frame misalignment.	6
13	Legal and Ethical Considerations in Dispensing	6
14	Communication and Patient Education	6
15	Final Review and Practical Assessments	3
<b>Total</b>		<b>87</b>

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	<b>Quizzes</b>	<b>5</b>	<b>10</b>
2.	<b>Mid-Term Exam</b>	<b>8</b>	<b>20</b>
3.	<b>Presentations and homework</b>	<b>1 - 14</b>	<b>10</b>
4.	<b>Lab Reports</b>	<b>1 - 14</b>	<b>10</b>
4.	<b>Final Exam (practical)</b>	<b>13</b>	<b>10</b>
5.	<b>Final Exam</b>	<b>16</b>	<b>40</b>

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

## E. Learning Resources and Facilities

### 1. References and Learning Resources

<b>Essential References</b>	<b>Brooks, C. W., &amp; Borish, I. M. (2007). System for Ophthalmic Dispensing (3rd ed.). Elsevier</b>
<b>Supportive References</b>	
<b>Electronic Materials</b>	
<b>Other Learning Materials</b>	

### 2. Required Facilities and equipment





Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<b>Classrooms and laboratorie</b>
<b>Technology equipment</b> (Projector, smart board, software)	<b>Projector</b>
<b>Other equipment</b> (Depending on the nature of the specialty)	<b>Generator, polishing and finning machine</b>

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
<b>Effectiveness of teaching</b>	Students and Faculty	Curse report, annual report, survey and results
<b>Effectiveness of students assessment</b>	Faculty and Program Leaders	Curse report, annual report, survey and results
<b>Quality of learning resources</b>	Students, Faculty and Program Leaders	Curse report, annual report, survey and results
<b>The extent to which CLOs have been achieved</b>	Faculty and Program Leaders	Curse report, annual report, survey and results
<b>Other</b>		

**Assessors** (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify))

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	<b>Umm Al-Qura University Council</b>
<b>REFERENCE NO.</b>	<b>851141114462/190386</b>
<b>DATE</b>	<b>1446/11/22</b>

