

**King Saud University**  
**Collage of Applied Medical Sciences**  
**Optometry Department**  
**Opto 225 2nd semester 2014-2015**  
**Course syllabus**

**Course title and code:** Ophthalmic Optics and Dispensing I

Time and Date: Thursday 8-11/ Lab 7

**Unit** =(2 + 1 ) = 3 Credits

**Instructor :** Menwah AL-Matrafi ,MSc/ Email: [malmatrafi@ksu.edu.sa](mailto:malmatrafi@ksu.edu.sa)

**Office Hour:** Wednesday 9-10 am **Office no.** 245 / **tel.:** 8050483

### **Course Descriptions**

This course will consist of one two hour lecture and one two hour lab per week over a period of ten weeks. It will cover ophthalmic materials, optical and physical characteristics of ophthalmic lenses, prisms and decentration, spheric and aspheric lenses, multifocal lenses, lens power measurement methods, lens power-thickness relationships and aberration theory and its application to lens design.

### **Course Distribution**

Wk/ lec.	Date	Topics
1	29/1/2015	Introduction to ophthalmic
2	5/2/2015	Form and material of ophthalmic lenses
3	12/1/2015	Power specification and measurement methods
4	19/2/2015	Spheris and aspheric lenses
5	26/2/2015	Midterm 1
6	5/3/2015	Power measurements and transposition
7	12/3/2015	Lens power thickness
8	19/3/2015	Multi focal lenses
9	2/4/2015	Ophthalmic prism and decentration
10	9/4/2015	Aberration theory and lens design
11	16/4/2015	Midterm 2
12	23/4/2015	Ophthalmic frames and safety lenses (optional)
13	30/4/2015	Practical exam
14	7/4/2015	revision
15	-	Final written exam

### **marks Distribution**

No	task	marks
1	1 midterm	20
2	2 midterm	20
3	homework	10
4	Lab exam	10
5	Final exam	40
6	Total	100

### **References**

1-System of ophthalmic dispensing , Clifford W. Brook third edition.

2- Introduction to ophthalmic optics. Darryl I Meister, ABOM, James E.Sheedy,OD,PhD

3- Primary care optometry. Theodore Grosvenor.

Good Luck,,,,,,