

Kingdom of Saudi Arabia

**The National Commission for Academic Accreditation &
Assessment**

COURSE SPECIFICATION

**College of Applied Medical Sciences - Department of
Optometry**

OPTO 263

Clinical Methods II

Revised March 2012

Course Specification

For Guidance on the completion of this template, please refer to Handbook 2 Internal Quality Assurance Arrangements

Institution: King Saud University
College/Department: College of Applied Medical Sciences / Dept. Of Optometry

A Course Identification and General Information

1. Course title and code: Clinical Methods II – OPTO 263
2. Credit hours: 3
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) College of Applied Medical Sciences program
4. Name of faculty member responsible for the course Ibrahim Almahuby
5. Level/year at which this course is offered Level 5 / First year in Optometry
6. Pre-requisites for this course (if any) OPTO 262
7. Co-requisites for this course (if any) None
8. Location if not on main campus

B Objectives

1. Summary of the main learning outcomes for students enrolled in the course.

- i** - Develop the students understanding and appreciation of certain optometry clinical procedures.
- ii**- The student will learn how to perform specific examination techniques essential for optometry practice
- iii**- The students should be trained on certain aspect of optometry clinical methods (knowledge – interpersonal – communication – problem solving – IT)
- iv**- Perform a basic objective refractive examination of straightforward ametropic patients.

2. Briefly describe any plans for developing and improving the course that are being implemented. (eg increased use of IT or web based reference material, changes in content as a result of new research in the field)

- i**- Explain strategy of the course in the beginning of the semester.
- ii**- Discussing some selected homework problems in each topic.
- iii**- The course materials will be posted on the department Website that could be accessed by the students enrolled in the course.
- iv**- The course evaluation form will be distributed to students by the end of each course

C. Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1. TOPICS to be COVERED	No. of Weeks	Contact Hours
Static Retinoscopy,	4	3
Keratometry	2	3
Direct Ophthalmoscopy	3	3
First Midterm Exam	1	2
The examination of external eye and the anterior segment using Slit-lamp Biomicroscopy, applying different techniques	3	3
Color vision tests Ishihara	1	3
Second Midterm Examination	1	2
Pseudoisochromatic plate-based color test	1	3
D-15 and Farnsworth-Munsell 100 Hue Test.	1	3
Clinical practice	15	24
Practical Examination	1	3
Final examination	1	2

2 Course components (total contact hours per semester):			
Lecture:	Tutorial:	Practical/Fieldwork/Internship:	Other:
16 (excluding final clinical and theoretical exams)		30	

3. Additional private study/learning hours expected for students per week. (This should be an average for the semester not a specific requirement in each week)

Students should spend a minimum of 6 hours per week for the homework and laboratory reports.

4. Development of Learning Outcomes in Domains of Learning

For each of the domains of learning shown below indicate:

- A brief summary of the knowledge or skill the course is intended to develop;
- A description of the teaching strategies to be used in the course to develop that knowledge or skill;
- The methods of student assessment to be used in the course to evaluate learning outcomes in the domain concerned.

a. Knowledge

(i) Description of the knowledge to be acquired

Introduce students to:

- Certain methods of clinical Optometry examinations.
- How to communicate adequately with patients to gain their co-operation in objective refractive instrumentation.
- Basic use of Slit-lamp biomicroscopy.
- Basic use of Ophthalmoscopy.
- How to adequately perform colour vision tests.

(ii) Teaching strategies to be used to develop that knowledge

- In-class, the previous knowledge is linked to the current and future topics.
- In-class, solve some related examples.
- In-class, use some interactive animation.
- Homework assignments
- Laboratory practice (hands-on and writing reports)

(iii) Methods of assessment of knowledge acquired

- In class, Discussion about certain clinical procedures.
- In class, and short MCQs quizzes.
- Evaluation of lab reports.
- Major and final exams.

b. Cognitive Skills

(i) Cognitive / Practical skills to be developed

- Critical thinking, problem solving, making judgement call.
- How to perform retinoscopy.

<ul style="list-style-type: none"> • How to perform keratometry. • How to perform slit-lamp biomicroscopy. • How to perform slit-lamp ophthalmoscopy. • How to perform color vision tests.
<p>(ii) Teaching strategies to be used to develop these cognitive skills</p> <ul style="list-style-type: none"> • Comprehensive clinical cases will be presented to students and they will be asked to formulate a treatment plan. • Case studies related to the course topics. • Advise students to search on some of the mentioned tests either on websites or in library and practice in the laboratory.
<p>(iii) Methods of assessment of students cognitive skills</p> <ul style="list-style-type: none"> • Clinical cases related question will be discussed. • In class short MCQs quizzes focus on the understanding of students. • Checking the problems solved in the homework assignments. • Major and final exams.
<p>c. Interpersonal Skills and Responsibility</p>
<p>(i) Description of the interpersonal skills and capacity to carry responsibility to be developed</p> <ul style="list-style-type: none"> • Work independently and as part of a team. • Manage teaching resources appropriately, time and other members of the group • Communicate results of work to others. • How to communicate with patients, instructors, and clinical staff. • How to deliver information to patients in a professional way. • How to deal with different patients' personalities and attitudes.
<p>(ii) Teaching strategies to be used to develop these skills and abilities</p> <ul style="list-style-type: none"> • Conducting group laboratory practice, solving problems and writing reports in groups. • Students will be trained on volunteer subjects.
<p>(iii) Methods of assessment of students interpersonal skills and capacity to carry responsibility</p> <ul style="list-style-type: none"> • Laboratory examinations • Assessment of the laboratory reports • Direct evaluation

d. Communication, Information Technology and Numerical Skills
<p>(i) Description of the skills to be developed in this domain.</p> <p>How to perform essential visual examination techniques combined their theoretical knowledge</p>
<p>(ii) Teaching strategies to be used to develop these skills</p> <ul style="list-style-type: none"> • Hands on training on different specialized visual examination techniques. • Ask students to use computer and internet in the course requirements and some related interesting topics – writing reports on the computer.
<p>(iii) Methods of assessment of students numerical and communication skills</p> <ul style="list-style-type: none"> • Direct evaluation such as comments on laboratory work • Midterm and final Examinations
e. Psychomotor Skills (if applicable):
<p>(i) Description of the psychomotor skills to be developed and the level of performance required</p> <ul style="list-style-type: none"> • Students should learn how to control his/her emotions as well as handle such circumstances under different situations. • Student should be properly coordinate between manual and knowledge
<p>(ii) Teaching strategies to be used to develop these skills</p> <ul style="list-style-type: none"> • Audio visual demonstration of clinical procedures. • Practical assignments where a specific time limit is given to the student. • Assignments where student should perform a practical demonstration in presence of lecturer & colleagues
<p>(iii) Methods of assessment of students psychomotor skills</p> <ul style="list-style-type: none"> • Students will be evaluated for different assignments. • Oral examination • Practical examination

5. Schedule of Assessment Tasks for Students During the Semester			
Assessment	Assessment task (eg. essay, test, group project, examination etc.)	Week due	Proportion of Final Assessment
1	Class activities (Lecture attendance and homework)	weekly	5%
2	Lab attendance	weekly	5%
3	Midterm exam I	6	10%
4	Midterm exam II	12	10%
5	Midterm practical exam	8	10%
6	Final practical exam	14	20%
7	Final theoretical exam	16	40%

D. Student Support

1. Arrangements for availability of faculty for individual student consultations and academic advice. (include amount of time faculty are available each week)

Office hours: 3 hr/ week

E. Learning Resources

1. Required Text(s)

- Clinical Procedures in Optometry, Eskridge, Amos and Bartlett.
- Clinical Visual Optics, by Bennett and Rabbetts. Butterworths-Heinemann.

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)

- Same as mention in 1

4-.Electronic Materials, Web Sites etc

- Websites on the internet that are relevant to the topics of the course

5- Other learning material such as computer-based programs/CD, professional standards/regulations
<ul style="list-style-type: none"> • Multi media associated with the text books and the relevant websites

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.)
1. Accommodation (Lecture rooms, laboratories, etc.) <ul style="list-style-type: none"> • Lecture room with max 30 seats • Auditorium of a capacity of not less than 100 seats for large lecture format classes • Experimental laboratories with max 25 places for each.
2. Computing resources <ul style="list-style-type: none"> • Computer room containing at least 15 systems
3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list) <ul style="list-style-type: none"> • Equipment and illustration tools relevant to the course material

G Course Evaluation and Improvement Processes

1- Strategies for Obtaining Student Feedback on Effectiveness of Teaching <ul style="list-style-type: none"> • Course evaluation by student. • Students - faculty meetings. • Student evaluation electronically organized by the University
2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department <ul style="list-style-type: none"> • Peer consultation on teaching • Departmental council discussions • Discussions within the group of faculty teaching the course

<p>3 Processes for Improvement of Teaching</p> <ul style="list-style-type: none"> • Program and course report • Conducting workshops given by experts on the teaching and learning methodologies. • Periodical departmental revisions of its methods of teaching • Monitoring of teaching activities by senior faculty members
<p>4. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution)</p> <ul style="list-style-type: none"> • Providing samples of all kind of assessment in the departmental course portfolio of each course • Assigning group of faculty members teaching the same course to grade same questions for various students. • Faculty from other institutions are invited to review the accuracy of the grading policy
<p>4 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.</p> <ul style="list-style-type: none"> • The course material and learning outcomes are periodically reviewed and the changes to be taken are approved in the departmental and higher councils. • The head of department and faculty take the responsibility of implementing the proposed changes.