 <b>جامعة البريمي</b> <b>UNIVERSITY OF BURAIMI</b> Al Buraimi, Sultanate of Oman College of Health Sciences	Document No.	QR-AAD-006
	Issue No.	01
	Revision No.	00
	Effective Date	October 1, 2015
<b>Program Specifications</b>		Page 1 of 22

<b>1. Program Title</b>	<b>Bachelor of Science in Optometry</b>
<b>2. Title of Final Award</b>	<b>Bachelor of Science in Optometry</b>
<b>3. Program Duration</b>	4 yrs (8 semesters)
<b>4. Study Mode</b>	Full-time
<b>5. Accreditation</b>	None
<b>6. Local/ External References</b>	Ministry of Education/Higher Education Council Bachelor Degree Program – Optometry. University of Bradford. U. K
<b>7. Date of production/revision of this specification</b>	2015-2016

#### 8. Program Brief Description and Outcomes

##### **Program Description:**

Optometrists are health care professionals whose primary role involves correction of vision with optical devices, detection and recognition of ocular diseases and dysfunctions. Optometrists are trained to prescribe and dispense optical devices such as spectacles, contact lenses and low vision aids, and to undertake assessment of binocular vision and the diagnosis and management of non-pathological binocular vision anomalies. The aim of the Bachelor's program in Optometry is to educate and train students to carry out all the functions described above, to communicate skillfully and knowledgeably with patients and other professionals, and to uphold high standards of professional integrity and behavior.

##### **A graduate in Optometry is expected to;**

- PO-1. Work as a primary eye care practitioner
- PO-2. Achieve a lifelong success in the practice of optometry.
- PO-3. Contribute to the welfare of the community through ethical practice.

#### 9. Student Outcomes, Teaching and Learning and Assessment Methods

##### **A. Knowledge and Understanding Skills**

**The program is intended to develop knowledge and understanding in the following areas.**

- A1. Describe the structural and functional aspects of the eye and visual system and its abnormalities.
- A2. Understand the methods of assessing the optical anomalies of the eye.

##### **Teaching and Learning Methods**

- Teaching and learning encompass lectures, seminars, classroom discussions, reading comprehensions, and group exercises.
- Students entering the Optometry program at UoB after general foundation program are given continuous support through the university systems to achieve a gradual shift towards an

independent, self-directed learning culture.

### Assessment Methods

The program aims to select from a range of assessment methods for each course unit. Assessment of courses include summative and formative methods conducted as class work, midterm and final assessments.

### B. Course-Specific Skills

- B1. Ability to carry out counseling and therapeutic communication effectively with the patient according to the clinical presentation.
- B2. Demonstrate the skills to use appropriate tests and techniques to assess and correct the abnormalities of the eye using suitable optical devices.
- B3. Practice referral skills to share the patient care with relevant health & medical personnel by screening, assessing, and evaluating the patient.

### Teaching and Learning Methods

Clinical skills training for Optometry students are broadly divided between pre-clinical and clinical stages of training; the more advanced clinical stage is towards the end of the program. The pre-clinical stage (principally 2<sup>nd</sup> and 3<sup>rd</sup> year) involves the development of basic clinical skills in an on-campus training facility with simulated cases and students practicing on other students.

Each practical and clinical examination techniques are demonstrated to the students and they are also provided with a procedure handout. After the demonstration, students have to practice the skill on their peers under faculty supervision. Students are advised to maintain logbooks of their clinical work to enable them to record evidence of progress and to reflect on the success and difficulties at every stage.

### Assessment Methods

Practical skills are assessed using a return demonstration of skills, practical examination & objective structured clinical examinations (OSCE). A combination of formative assessment and synoptic assessment methods are applied in the assessment pattern. Formative assessments are designed to help learners learn more effectively by giving them feedback on their performance and on how it can be improved and/or maintained.


### C. Thinking Skills

- C1. Apply logic and reasoning to identify the anomalies of the eye and plan clinical approaches to the conditions.
- C2. Analyze clinical cases and review related information to develop and evaluate most suitable treatment plans.

### Teaching and Learning Methods

When students approach to their higher semesters, they are more like matured, independent learners and the courses like research project, clinical case studies and clinical practice are offered in higher semesters.

Teaching learning will be offered though lectures, case discussions, case demonstrations in the clinics, group and individual assignments.

 <b>جامعة البريمي</b> <b>UNIVERSITY OF BURAIMI</b> Al Buraimi, Sultanate of Oman College of Health Sciences	Document No.	QR-AAD-006
	Issue No.	01
	Revision No.	00
	Effective Date	October 1, 2015
<b>Program Specifications</b>		Page 3 of 22

<b>Assessment Methods</b>
<p>Synoptic assessments are commonly applied to assess the critical thinking skills of students. Synoptic assessments are those that encourage students to combine elements of their learning from different parts of a program and to show their accumulated knowledge and understanding of a topic or subject area. Critical thinking skills of students are assessed using oral presentations of case discussions, clinical assessments and research project preparations.</p>
<b>D. General and Transferable Skills</b>
<p>D1. Develop professional skills through continuous education, research and lifelong learning approaches.</p> <p>D2. Work in a team environment, sharing information and participate and contribute to professional development.</p>
<b>Teaching and Learning Methods</b>
<p>Education, at any level, provides cumulative development in a student's knowledge, skills, and attitude. The aspects of transferable skills integrated in the Optometry program are taught through tutorials, case discussions, group assignments &amp; activities and clinic attendance.</p>
<b>Assessment Methods</b>
<p>Assessing transferable skills are more complex than assessing knowledge and course specific skills. Assessments are done using case discussions, assessments in the clinical areas, care report analysis, project report analysis etc.</p>
<b>10. Admission Criteria</b>
<p>Students need to join a General Foundation Program (GFP) before they enter into Optometry program. GFP is to prepare admitted students for undergraduate level studies, assisting them to experience a smooth and more successful transition from high school to university. To register for Optometry program, students need to score a minimum grade of "C" in: Chemistry, Biology, Physics, English and Pure mathematics at higher secondary level. In addition to that, students need to successfully complete an admission test which is conducted by college of health science before they get into the program.</p> <p>Eligibility to enter the Academic College</p> <ul style="list-style-type: none"> <li>▪ Students must achieve a minimum pass score of 65% for each level of English proficiency in GFP.</li> <li>▪ Students must achieve a minimum pass score of 65% in all Mathematics, IT &amp; study skills.</li> </ul>
<b>11. Key Resources of information about the program</b>
College of Health Sciences – Program Brochure
<b>12. Program Prepared by:</b>
College of Health Sciences Curriculum Development Committee
<b>13. Program Manager:</b>
Dr. J.F. Thomas, DEAN, College of Health Sciences.

#### 14. Program Skills Map:

##### CoHS generic graduate attributes – University graduate Attributes Map

	<b>U1.</b> Appropriate level of knowledge and skills in the discipline	<b>U2.</b> Analytic and critical thinking skills	<b>U3.</b> Professionalism, Ethical Behavior and Social Responsibility	<b>U4.</b> Flexibility to adaptability to a multi-cultural and dynamic context
<b>CoHS1.</b> Graduates to demonstrate knowledge and skills in real life situations including work environment with initiative, innovation, confidence and authority reflective of their level of academic qualifications.	√	√		
<b>CoHS2.</b> Graduates to demonstrate commitment to the welfare of individuals and society through their conduct as health science professionals without bias or discrimination.			√	√
<b>CoHS3.</b> Graduates with unwavering integrity will abide by the laws of the land and the codes of conduct of their specific professions at all times in the best interest of the people they are called to serve.			√	√
<b>CoHS4.</b> A graduate will strive to extend full professional cooperation to their colleagues and peers with due respect for different points of view and a clear understanding of the significance of team effort in facilitating holistic health for all			√	√
<b>CoHS5.</b> Graduates will demonstrate their scientific thinking and commitment to professional excellence, and value centered professional practice through active engagement in lifelong learning.		√	√	√



Document No.	QR-AAD-006
Issue No.	01
Revision No.	00
Effective Date	October 1, 2015

**Program Specifications**

Page 5 of 22

**Program Outcomes – CoHS Generic Graduate Attributes Map**

	CoHS1. Professionalism	CoHS2. Service Orientation	CoHS3. Discipline	CoHS4. Amenability	CoHS5. Scholarship
<b>PO-1.</b> Work as a primary eye care practitioner	√	√			
<b>PO-2.</b> Achieve a lifelong success in the practice of optometry.			√	√	√
<b>PO-3.</b> Contribute to the welfare of the community through ethical practice.		√	√	√	√

**Student Outcomes – CoHS Generic Graduate Attributes Map**

	CoHS1. Professionalism	CoHS2. Service Orientation	CoHS3. Discipline	CoHS4. Amenability	CoHS5. Scholarship
<b>A1.</b> Describe the structural and functional aspects of the eye and visual system and its abnormalities.	√	√			
<b>A2.</b> Explain the methods to assess and correct optical anomalies of the eye.	√	√			
<b>B1.</b> Ability to communicate effectively with the patient according to the clinical presentation.	√		√	√	√
<b>B2.</b> Demonstrate the skills of using appropriate tests and techniques to assess and correct the abnormalities of the eye using suitable optical devices.	√	√	√		
<b>B3.</b> Establish the skills to share the patient care with relevant health & medical personnel.	√		√	√	√
<b>C1.</b> Assemble logic and reasoning to identify the anomalies of the eye and	√	√	√	√	√



**Program Specifications**

plan clinical approaches to the conditions.					
<b>C2.</b> Analyze clinical cases and review related information to develop and evaluate most suitable treatment plans.	√		√	√	√
<b>D1.</b> Develop professional skills through continuous education, research and lifelong learning approaches.	√		√	√	√
<b>D2.</b> Work in a team environment, sharing information and participate and contribute to professional development.	√		√	√	√

**Student outcomes – Program Objectives Map**

Student Outcomes	Program Objectives		
	1	2	3
<b>A1.</b> Describe the structural and functional aspects of the eye and visual system and its abnormalities.	√		
<b>A2.</b> Explain the methods to assess and correct optical anomalies of the eye.	√		
<b>B1.</b> Ability to communicate effectively with the patient according to the clinical presentation.	√	√	
<b>B2.</b> Demonstrate the skills of using appropriate tests and techniques to assess and correct the abnormalities of the eye using suitable optical devices.	√	√	
<b>B3.</b> Establish the skills to share the patient care with relevant health & medical personnel.	√	√	√
<b>C1.</b> Assemble logic and reasoning to identify the anomalies of the eye and plan clinical approaches to the conditions.	√	√	√
<b>C2.</b> Analyze clinical cases and review related information to develop and evaluate most suitable treatment plans.	√	√	√
<b>D1.</b> Develop professional skills through continuous education, research and lifelong learning approaches.	√	√	√
<b>D2.</b> Work in a team environment, sharing information and participate and contribute to professional development.	√	√	√

### 15. Curriculum Skills Map

Yr/Sem	Course code	Course Title	Student Outcomes									
			Knowledge & Understanding		Course Specific Skills			Thinking Skills		General & transferable skills		
			A1	A2	B1	B2	B3	C1	C2	D1	D2	
1/1	ARAB 100	Arabic language										√
	HIST 100	Oman History										√
	ESPU 145	English for special purpose-I	√	√	√							
	GEOP 101	Geometrical & Physical Optic - I	√	√								
	ANAP 101	Intro to human anatomy & physiology – I	√									
1/2	ESPU 155	English for special purpose-II	√	√	√							
	GEOP 102	Geometrical & Physical Optic - II	√	√								
	ANAP 102	Intro to human anatomy & physiology – II	√									
	SOCI 100	Omani Society										√
	OPTM 102	Introduction to Optometry	√	√								
	ALTR 102	Algebra & Trigonometry	√									
2/1	OPTM 201	Pure & Visual Optics – I	√	√								
	OPTM 203	Pure & Visual Optics – II	√	√								
	OPTM 209	Human body in health & Disease-I	√		√	√						
	OPTM 211	Human body in health & Disease-II	√		√	√						
	OPTM 207	Ocular anatomy & physiology - I	√	√	√	√						
	OPTM 213	Ocular anatomy & physiology - II	√	√	√	√						
	OPTM 217	Physiology of vision & perception-I	√	√	√	√						
	OPTM 219	Physiology of vision & perception-II	√	√	√	√						
	OPTM 221	Clinical Optometry – I	√	√								
	OPTM 223	Clinical Optometry – II		√	√	√		√				
	OPTM 227	Optometric Mathematics – I	√	√								
	OPTM 229	Optometric Mathematics – II	√	√								
2/2	OPTM 204	Pure & Visual Optics – III	√	√	√	√		√				
	OPTM 206	Pure & Visual Optics – IV		√	√	√		√				
	OPTM 212	Human body in health & Disease-III	√		√	√						
	OPTM 214	Human body in health & Disease-IV	√		√	√						
	OPTM 216	Ocular anatomy & physiology- III	√	√	√	√						
OPTM 218	Ocular anatomy & physiology- IV	√	√	√	√							



**Program Specifications**

	OPTM 222	Physiology of vision & perception-III	√	√	√	√						
	OPTM 224	Physiology of vision & perception-IV	√	√	√	√						
	OPTM 226	Clinical Optometry – III	√	√								
	OPTM 228	Clinical Optometry – IV		√	√	√	√	√				
3/1	OPTM 301	Clinical optometry & communication skills – I		√	√	√	√	√				
	OPTM 303	Clinical optometry & communication skills – II		√	√	√	√	√				
	OPTM 307	General & Ocular pharmacology-I	√									
	OPTM 309	General & Ocular pharmacology-II	√									
	OPTM 317	Visual & ocular assessment – I		√	√	√	√	√	√			
	OPTM 319	Visual & ocular assessment – II		√	√	√	√	√	√			
	OPTM 311	Assessment & management of binocular vision – I		√	√	√	√	√	√			
	OPTM 313	Assessment & management of binocular vision – II		√	√	√	√	√	√			
	OPTM 321	Ophthalmic lenses & dispensing – I		√	√	√	√	√	√			
	OPTM 323	Ophthalmic lenses & dispensing – II		√	√	√	√	√	√			
	OPTM 327	Clinical methodology & statistics – I	√	√								
	OPTM 329	Clinical methodology & statistics – II	√	√								
	3/2	OPTM 304	Clinical optometry & communication skills – III		√	√	√	√	√			
OPTM 306		Clinical optometry & communication skills – IV		√	√	√	√	√				
OPTM 312		General & Ocular pharmacology-III	√									
OPTM 314		General & Ocular pharmacology-IV	√									
OPTM 318		Visual & ocular assessment – III		√	√	√	√	√	√			
OPTM 322		Visual & ocular assessment – IV		√	√	√	√	√	√			
OPTM 316		Assessment & management of binocular vision – III		√	√	√	√	√	√			
OPTM 324		Assessment & management of binocular vision – IV		√	√	√	√	√	√			
OPTM 328		Ophthalmic lenses & dispensing – III		√	√	√	√	√	√			
OPTM 332		Ophthalmic lenses & dispensing – IV		√	√	√	√	√	√			
	OPTM 332	Contact lens practice – I		√	√	√	√	√	√			
	OPTM 334	Contact lens practice – II		√	√	√	√	√	√			



**Program Specifications**

Page 9 of 22

4/1	OPTM 401	Ocular & System disease – I		√	√	√	√	√	√		
	OPTM 403	General clinical practice – I			√	√	√	√	√	√	√
	OPTM 407	Advanced clinical practice – I			√	√	√	√	√	√	√
	OPTM 409	Research Project – I						√	√	√	√
	OPTM 411	Low vision & ageing		√	√	√	√	√	√		
	OPTM 413	Low vision & ageing		√	√	√	√	√	√		
	OPTM 417	Contact lens practice – II		√	√	√	√	√	√		
4/2	OPTM 402	Ocular & System disease – I		√	√	√	√	√	√		
	OPTM 404	General clinical practice – II			√	√	√	√	√	√	√
	OPTM 408	Advanced clinical practice – II			√	√	√	√	√	√	√
	OPTM 412	Research Project						√	√	√	√
	OPTM 414	Clinical case studies						√	√	√	√
	OPTM 416	Professional, legal and ethical studies	√							√	√

**16. Program Structure**

Year	Sem	Course Code	Course Title	Credit Units	Pre-requisite/Co-requisites
1	1	ARAB 100	Arabic Language	3	FENG 003
		HIST 100	Oman History	2	FENG 003
		ESPU 145	English for special purpose (Optometry -I)	5	FENG 003
		GEOP 101	Geometrical & Physical Optics - I	4	FENG 003, FMAT 003P
		ANAP 101	Intro to human anatomy & physiology - I	4	FENG 003
				<b>18</b>	
1	2	ESPU 155	English for special purpose (Optometry II)	5	ESPU 145
		GEOP 102	Geometrical & Physical Optics - II	4	GEOP 101
		ANAP 102	Intro to human anatomy & physiology - II	4	ANAP 101
		OPTM 102	Introduction to Optometry	4	FENG 003, 28 CH
		ALTR 102	Algebra & Trigonometry	2	FMAT 003P
		SOCI 100	Omani Society	1	FENG 003
				<b>20</b>	
2	3	OPTM 201	Pure & Visual Optics - I	2	GEOP 101 & GEOP 102
		OPTM 203	Pure & Visual Optics - II	2	OPTM 201 Co-requisite
		OPTM 209	Human Body in Health & Disease - I	2	ANAP 101 & 102
		OPTM 211	Human Body in Health & Disease - II	2	OPTM 209 Co-requisite
		OPTM 207	Ocular Anatomy & Physiology - I	2	ANAP 101 & ANAP 102
		OPTM 213	Ocular Anatomy & Physiology - II	2	OPTM 207 Co-requisite
		OPTM 217	Physiology of vision & Perception - I	2	ANAP 101 & 102
		OPTM 219	Physiology of vision & Perception - II	2	OPTM 217 Co-requisite
		OPTM 221	Clinical Optometry - I	1	OPTM 102



**Program Specifications**

		OPTM 223	Clinical Optometry - II	2	OPTM 221 Co-requisite
		OPTM 227	Optometric Mathematics - I	1	ALTR 102
		OPTM 229	Optometric Mathematics - II	1	OPTM 227 Co-requisite
				<b>21</b>	
2	4	OPTM 204	Pure & Visual Optics - III	2	OPTM 201 + OPTM 203
		OPTM 206	Pure & Visual Optics - IV	2	OPTM 204 Co-requisite
		OPTM 212	Human Body in Health & Disease - III	2	OPTM 209 + OPTM 211
		OPTM 214	Human Body in Health & Disease - IV	2	OPTM 212 Co-requisite
		OPTM 216	Ocular Anatomy & Physiology - III	2	OPTM 207 + OPTM 213
		OPTM 218	Ocular Anatomy & Physiology - IV	2	OPTM 216 Co-requisite
		OPTM 222	Physiology of vision & Perception - III	2	OPTM 217 + OPTM 219
		OPTM 224	Physiology of vision & Perception - IV	2	OPTM 222 Co-requisite
		OPTM 226	Clinical Optometry - III	1	OPTM 221& OPTM 223
		OPTM 228	Clinical Optometry - IV	4	OPTM 226 Co-requisite
				<b>21</b>	
3	5	OPTM 301	Clinical Optom& Communication skills - I	1	ESPU 145 & 155
		OPTM 303	Clinical Optom& Communication skills - II	2	OPTM 301 Co-requisite
		OPTM 307	General & Ocular Pharmacology - I	2	OPTM 216 & OPTM 222
		OPTM 309	General & Ocular Pharmacology - II	2	OPTM 307 Co-requisite
		OPTM 317	Visual & Ocular assessment - I	2	OPTM 226 + OPTM 228
		OPTM 319	Visual & Ocular assessment - II	2	OPTM 317 Co-requisite
		OPTM 311	Assessment & Mgmt of Binocular vn-I	2	OPTM 226 & OPTM 228
		OPTM 313	Assessment&Mgmt of Binocular vn-II	2	OPTM 311 Co-requisite
		OPTM 321	Ophthalmic Lenses & Dispensing - I	2	OPTM 226 & OPTM 228 + OPTM 317 – Co requisite
		OPTM 323	Ophthalmic Lenses & Dispensing - II	2	OPTM 321 Co-requisite
		OPTM 327	Clinical Methodology & Statistics - I	2	OPTM 227 & OPTM 229
		OPTM 329	Clinical Methodology & Statistics - II	2	OPTM 327 Co-requisite
				<b>23</b>	
3	6	OPTM 304	Clinical Optom& Communication skills - III	1	OPTM 301 & OPTM 303
		OPTM 306	Clinical Optom& Communication skills- IV	2	OPTM 304 Co-requisite
		OPTM 312	General & Ocular Pharmacology - III	2	OPTM 307 + OPTM 309
		OPTM 314	General & Ocular Pharmacology - IV	2	OPTM 312 Co-requisite
		OPTM 318	Visual & Ocular assessment - III	2	OPTM 317 & OPTM 319
		OPTM 322	Visual & Ocular assessment - IV	2	OPTM 318 Co-requisite
		OPTM 316	Assessment & Mgmt of Binocular vn - III	2	OPTM 311 & OPTM 313
		OPTM 324	Assessment & Mgmt of Binocular vn - IV	2	OPTM 316 Co-requisite
		OPTM 326	Ophthalmic Lenses & Dispensing - III	2	OPTM 321 & OPTM 323
		OPTM 328	Ophthalmic Lenses & Dispensing - IV	2	OPTM 326 Co-requisite
				OPTM 332	Contact Lens Practice - I



Document No.	QR-AAD-006
Issue No.	01
Revision No.	00
Effective Date	October 1, 2015

**Program Specifications**

Page 11 of 22

		OPTM 334	Contact Lens Practice - II	2	OPTM 332 Co-requisite
				<b>23</b>	
4	7	OPTM 401	Ocular & system disease - I	2	126 C.H
		OPTM 403	General Clinical Practice - I	6	OPTM 318
		OPTM 407	Advanced Clinical Practice - I	4	OPTM 403 Co-requisite
		OPTM 409	Research Project - I	1	126 C.H
		OPTM 411	Low vision & Ageing - I	2	OPTM 316
		OPTM 413	Low vision & Ageing	3	OPTM 403 Co-requisite
		OPTM 417	Contact Lens Practice - II	2	OPTM 332
				<b>20</b>	
4	8	OPTM 402	Ocular & System disease - II	2	OPTM 401
		OPTM 404	General Clinical Practice - II	6	OPTM 403 + OPTM 407
		OPTM 408	Advanced Clinical Practice - II	4	OPTM 404 Co-requisite
		OPTM 412	Research Project - II	1	146 C.H
		OPTM 414	Clinical Case Studies	4	146 C.H
		OPTM 416	Professional, Legal and ethical studies	2	146 C.H
				<b>19</b>	
<b>Total Program Credits</b>				<b>165</b>	



### 17. Course Description

Course Code	Course Title	Course Description
ARAB 100	Arabic Language	<p><b>التعلم :</b></p> <p>يتوقع من الطالب بعد نهاية المقرر أن :</p> <ol style="list-style-type: none"> <li>1- يستعمل اللغة العربية في المواقف المختلفة استعمالاً فصيحاً مقبولاً .</li> <li>2- يكتسب معرفة بخصائص اللغة العربية .</li> <li>3- يتدرب على تحليل النصوص الأدبية الشعرية و النثرية , ويتقن مهارات التدقيق و التحليل و النقد .</li> <li>4- يكتسب القدرة على التعبير عن أفكاره شفوياً و كتابياً بلغة عربية فصيحة سليمة.</li> <li>5- يكتسب مهارات التفكير العليا في التحليل , و المقارنة , و التفسير , و الاستنتاج و التطبيق .</li> <li>6- يستفيد من المعلومات و الخبرات و تمثل المواقف ؛ لإيجاد حلول و بدائل للقضايا و المشكلات المختلفة.</li> <li>7- أن يتمكن من استعمال مهارات اللغة العربية على نحو وظيفي مقبول في عرض الموضوعات في مجال تخصصه باستخدام التقنية الحديثة.</li> <li>8- أن يكون قادراً على توظيف مصادر التعلم في إعداد و كتابة بحث صفي .</li> <li>9- يتدرب على الصحة و السلامة اللغوية , و الدقة الأسلوبية , و إيضاح الفكرة من خلال إعداد بحث صفي.</li> </ol> <p><b>As given by CFS</b></p>
HIST 100	Oman History	<p><b>Oman History -60 مساق تاريخ عمان والحضارة الإسلامية:</b></p> <p>يعتبر هذا المساق كذلك من المواد الجامعية العامة (متطلب عام) فهو يتضمن موضوعات تاريخية هامة مقسمة الى جزئين رئيسيين الاول يناقش تاريخ عمان منذ العصور الانسانية الاولى بالاضافة الى تاريخها القديم والحديث والمعاصر ، أما الجزء الثاني فهو يتضمن موضوعات تدرس تاريخ الحضارة الإسلامية العظيمة والنهضة العلمية الكبيرة في هذه الحضارة وتطور الحضارة الإسلامية في شتى المجالات فهذا المساق يؤكد في موضوعاته المختلفة على عظمة هذه الحضارة و انسانيته وتسامحها .</p>
SOCI 100	Omani Society	<p><b>- مساق المجتمع العماني: Oman Society</b></p> <p>هذا المساق يدرس في جامعة البريمي على إعتبار أنه من المواد الجامعية العامة (متطلب) حيث يتضمن محتوى هذا المساق جميع أنساق المجتمع العماني فهو يناقش عشرة مواضيع هامة تخص المجتمع العماني مثل النسق البيئي، والديموغرافي، والأداري والسياسي، والنسق الاقتصادي، والاسري، والتعليمي، ونسق المجتمع المدني، والنسق الثقافي، ومجالات الرعاية الاجتماعية وهي جميعها مواضيع هامة تمس الطالب الجامعي في سلطنة عمان.</p>
ESPU 145	English for Special Purpose – I	Students familiarize themselves with basic English communication skills. This course will provide them with the basic understanding of terminologies used in communication in Optometry.
ESPU 155	English for Special Purpose – II	Optometry and other professional, health related programs require a high-level knowledge of English vocabulary and grammar in order that students may understand specialist terminology and communicate effectively with patients and other professionals. This course continues the study of English for specialized application in the health sciences and professions.

**Program Specifications**

ALTR 102	Algebra & Trigonometry	This course introduces the essential mathematics required to support the study of Optometry. Emphasis will be on basic principles and techniques in algebra, geometry and trigonometry. Skill in handling these types mathematics is an essential pre-requisite for the study of pure (geometrical) and visual optics, and simple optics problems should be used to instruct students in relevant techniques of algebra and trigonometry.
GEOP 101	Geometrical & Physical Optics – I	These courses follow on from Algebra & Trigonometry. This course is intended to expose the central ideas and principle of physics to students requiring a general background in physics which is very essential for optometry students.
GEOP 102	Geometrical & Physical Optics – II	This course intends to provide students with necessary knowledge of linking geometrical and physical optics principle to explain the human eye as an optical system.
ANAP 101	Introduction to human anatomy & physiology – I	The course is designed to provide students with basic knowledge and understanding of the structure and function of human body systems. Also, this course will provide framework for studying diseases.
ANAP 102	Introduction to human anatomy & physiology – II	This course is a continuation of knowledge and understanding of the structure and function of the human body systems. It is also intended to set the scene for three significant courses of Year 2, Human body in Health & Diseases, Ocular Anatomy & Physiology and the Physiology of Vision & Perception.
OPTM 102	Introduction to Optometry	This course is intended to orientate students with specific theoretical and practical introductions to topics that are important in everyday optometry practice. It introduces students to some fundamental and basic aspects of optometry, the professional and ethical expectations of healthcare professionals and the various eye care professionals and modes of practice around the world. The course will also introduce some of the basic component areas of work undertaken by Optometrists.
OPTM 201	Pure & Visual Optics – I	This course covers the general principles of the geometrical and physical optics and how they apply to the optics of the human eye.
OPTM 203	Pure & Visual Optics – II	This course covers the practical elements to support the knowledge and understanding of the pure & visual optics – I
OPTM 204	Pure & Visual Optics – III	This course describes the application of geometrical optical principles to explain the refractive anomalies of the eye.

**Program Specifications**

Page 14 of 22

OPTM 206	Pure & Visual Optics – IV	This course covers the practical elements to support the knowledge and understanding of the Pure & Visual Optics – III.
OPTM 209	Human body in health & Diseases – I	The course is designed to emphasize the need of understanding the various human body physiological and pathological processes in the phase of health and disease. It mainly deals with the basic outlines about human body in the state of health and disease. The students will learn basic medical science discipline in context to clinical settings and practices. The knowledge of the pathological processes will be discussed with respect to the microbial (microbiology) agents and immunological (immunological) processes. Students will learn the common diseases and their effects on the visual senses and perception.
OPTM 211	Human body in health & Diseases – II	This course involves diseases occur in human body. It encompasses exercises, video demonstrations and discussions on topics related to Human anatomy and physiology, Microbiology, Immunology, Mechanism of diseases and infections. It aims to elucidate and expand on lecture ideas, topics and concepts covered in OPTM 209 Human body in health and disease I.
OPTM 212	Human body in health & Diseases – III	The main focus of the course is to revise and reinforce concepts of basic medical sciences and their integration with clinical practice. It will improve students understanding of the advanced knowledge in the basic and clinical sciences disciplines. In addition, it will facilitate their comprehension in understanding the association of different physiological processes with pathological diseases with special emphasis to human eye. The course will cover the broad spectrum of disciplines with real time scenario and case study.
OPTM 214	Human body in health & Diseases – IV	This course focuses on tutorial activities to enhance the knowledge and understanding of topics covered in OPTM 212 (Human body in health and diseases – III).
OPTM 207	Ocular Anatomy & Physiology – I	Ocular Anatomy and Physiology is the study of how the eye works. This course looks in detail at the structure and function of the eye and visual system. The aim of this course is to stimulate a broad understanding of anatomical and functional relationships between the eye, the brain, and their supporting structures.
OPTM 213	Ocular Anatomy & Physiology – II	The aim of this tutorial course is to help students take their knowledge gained in theory session to the physiological and clinical aspect of anterior segment eye structures.



**Program Specifications**

OPTM 216	Ocular Anatomy & Physiology – III	This course looks in detail at the structure and function of the eye and visual system specifically the posterior segment eye structures and cranial nerves.
OPTM 218	Ocular Anatomy & Physiology – IV	The aim of this tutorial course is to help students take their knowledge gained in theory session to its physiological and clinical aspects of posterior segment eye structures.
OPTM 217	Physiology of vision & perception – I	This course is about the mechanism of vision and perception – how the various components of the eye work together with other senses to enable us see things in our environment and how the segregated visual pathways combine information of colour, motion and depth to provide a coherent visual percept. It involves the culmination of various concepts of optics, ocular anatomy and physiology as well as topics relating to neurophysiology and psychophysics.
OPTM 219	Physiology of vision & perception – II	This course involves exercises and class work on optics, ocular anatomy and physiology as well as neurophysiology and psychophysics. It aims to elucidate and expand on lecture ideas, topics and concepts covered in OPTM 217 Physiology of vision and perception I.
OPTM 222	Physiology of vision & perception – III	This course is the continuation of the theory course Physiology of Vision and Perception I OPTM 217 in third semester. The students will have an idea of the physiology of retina, scotopic and photopic vision, light and dark adaptation. This course takes the students to the next level in learning perception. The students are introduced to the concepts of receptive field and the methods to study perception. An overview of spatial vision is given to the student. The concepts in color vision and the design of color vision charts are covered. The students are introduced to the physiology of vision and perception as applied to the clinical study of optometry. The understanding of how the visual system works involves the culmination of various concepts of optics, anatomy and physiology.
OPTM 224	Physiology of vision & perception – IV	This course is a co-requisite for Physiology of Vision and Perception III (OPTM 222). The tutorial component of this course consists of exercise which will help the students understand a structure clearly. The students will be given exercises which would improve their understanding and comprehension skills. The students will understand psychophysical procedures and clinical tests which involve psychophysical testing. By discussing articles and write ups on physiological mechanisms concerning perception, the





**Program Specifications**

		students will be able understand the physiology of vision and perception better.
OPTM 227	Optometric Maths – I	The course provides the basic mathematics knowledge that is required for optometric students. Measures of central tendency are taught and students learn to present data pictorially. The students are trained to apply the concepts of algebra, trigonometry and other basic principles of mathematics in the various ophthalmic lenses. The students are introduced to the concept of transposition of spherical and cylindrical lenses. The prismatic effect is discussed and the effects of lens power on decentration are covered in this course. The resultant effect of the lenses on the eye is discussed.
OPTM 229	Optometric Maths – II	This course supplements the theory course – Optometric mathematics I (OPTM 227). The course provides the basic mathematics knowledge that is required for optometric students. The students are introduced to the math involved in optometric practice. By solving problems in lens power and decentration, students understand the effect of these lenses on eye and vision. The students are introduced to spreadsheets and basic data handling is covered in this course. The students will be trained to transpose spherocylindrical lenses mentally.
OPTM 221	Clinical Optometry – I	This course provides the students with the knowledge and skills that are required to perform routine eye examination in a clinical set-up. Theoretical aspect of the basic ocular examination procedures will be discussed in this course.
OPTM 223	Clinical Optometry – II	This course is designed to practice and learn basic eye examination procedures performed routinely during Optometric clinical examination. Practical aspects of clinical care are included in this course and the student is introduced to various clinical tests, their purpose and interpretation of the results. The practice sessions take place in simulated environments supervised by the instructor and co-instructor. The importance will be given to develop the objective refraction skills.
OPTM 226	Clinical Optometry – III	This course provides the students with the knowledge and skills that are required to perform routine eye examination in a clinical set-up and it is a continuation of the course Clinical Optometry – I (OPTM 221). Theoretical aspect of the basic ocular examination, especially subjective refraction procedures will be discussed in this course.



Document No.	QR-AAD-006
Issue No.	01
Revision No.	00
Effective Date	October 1, 2015

**Program Specifications**

Page 17 of 22

OPTM 228	Clinical Optometry – IV	This course is designed to revise, practice and learn refraction (objective & subjective) procedures performed routinely during Optometric clinical examination. Practical aspects of clinical care are included in this course and the student is introduced to various clinical tests, their purpose and interpretation of the results. The practice sessions take place in simulated environments supervised by the instructor.
OPTM 301	Clinical Optometry & Communication skills – I	This course is designed to develop optometric clinical examination skills with particular emphasis on communication with patients.
OPTM 303	Clinical Optometry & Communication skills – II	This course is a tutorial for OPTM 301. Communication skills that is needed in a clinical environment is practiced in a simulated clinical set up.
OPTM 304	Clinical Optometry & Communication skills–III	This course is a continuation of the theory course OPTM 301 and focuses on to learn how we communicate clinical decisions with patients and other health professionals.
OPTM 306	Clinical Optometry & Communication skills–IV	This course extends the development of Optometric skills with particular emphasis on communication with parents. The aim of this course is to enable students to execute clinical examinations and communicate effectively with patients.
OPTM 307	General & Ocular Pharmacology – I	The course deals with basic principles and fundamental concepts of general and ocular pharmacology. The students will come across the basic principles of drug action and interaction; nevertheless they will study the factors affecting drug therapy, action and metabolism. The course will also highlight the different route of administration of drugs. It will provide them an insight about the medicines affecting the autonomic nervous system and their systemic effects. In addition, the course will emphasize to comprehend concepts relevant to ocular pharmacology; this will include the major classes of ocular drugs and their usage for diagnostic and therapeutic purposes. Nevertheless, the
OPTM 309	General & Ocular Pharmacology – II	This course is an agreement with optometry course (OPM 307), it will facilitate the student centered learning regarding basic principles and fundamental concepts of general and ocular pharmacology. The students will actively engage themselves to strengthen their understanding of the core concepts that have in the theory classes. Their participation and interaction will reinforce their knowledge in a conducive manner. It will help to improve their presentation skills and individual professional attributes.

**Program Specifications**

OPTM 312	General & Ocular Pharmacology – III	The course deals with basic principles and fundamental concepts of general and ocular pharmacology. The students will come across the advanced principles of drug action and interaction; nevertheless they will relate the factors affecting drug therapy, action and metabolism. Moreover, the course will emphasize to understand the concepts relevant to ocular pharmacology and its application; this will include the major classes of ocular drugs and their usage for diagnostic and therapeutic purposes. The students will also learn the mechanisms of actions and clinical spectrum of Antibiotics used in general medical and ophthalmology. This will help students to apply their knowledge to a new situation, and aid in the transfer of student learning of evolutionary concepts to real-life situations Nevertheless, the students will be provided with an overview about the toxicological effects of drug therapy.
OPTM 314	General & Ocular Pharmacology – IV	This course is an agreement with optometry course (OPM 312), it will facilitate the student centered learning regarding advanced principles and fundamental concepts of general and ocular pharmacology. The students will actively engage themselves to strengthen their understanding of the core concepts that have in the theory classes. Their participation and interaction will reinforce their knowledge in a conducive manner. It will help to improve their presentation skills and individual professional attributes. Case study will help to improve the interpretation and analysis skills.
OPTM 317	Visual & Ocular Assessment – I	This course is designed to learn the salient features of ophthalmic instrument design and common ocular pathology, and to enable students to competently use clinical ophthalmic instruments for the detection of ocular abnormality and pathology.
OPTM 319	Visual & Ocular Assessment – II	This course is designed as practical/clinical training sessions to learn ocular clinical examination skills using different instruments for anterior segment eye examinations. This course also focuses on interpreting the results after clinical examination and compiles them to come up with a tentative diagnosis.
OPTM 318	Visual & Ocular Assessment – III	This course is designed to learn the salient features of ophthalmic instrument design and common ocular pathology, and to enable students to competently use clinical ophthalmic instruments for the detection of ocular abnormality and pathology. A more stress will be given to

**Program Specifications**

		learn posterior segment evaluation of the eye and advanced diagnostic instruments in eye care and its clinical uses.
OPTM 322	Visual & Ocular Assessment – IV	This course is designed as practical/clinical training sessions to learn ocular clinical examination skills using different instruments for posterior segment eye examinations. This course also focuses on interpreting the results after clinical examination and compiles them to come up with a tentative diagnosis.
OPTM 327	Clinical methodology & statistics – I	This course focuses on studying the basic concepts of statistics and epidemiology. The aim of the course is to illustrate the importance of measurement and decision making in clinical vision science. It also aims to introduce statistical methods of analysis and their clinical and experimental application. The course provides methods for determining the quality of clinical measurements & decisions. This course is a theory course that aims to supplement the knowledge required for the OPTM 329 practical course.
OPTM 329	Clinical methodology & statistics – II	This course aims to provide tutorial and additional learning support to enhance the understanding of students on the statistical methods that they have learned in OPTM 327.
OPTM 311	Assessment & Management of binocular vision – I	A sound theoretical knowledge of the binocular vision paves the way for clear understanding of the physiology of the eye in the clinics. This course aims to teach the basic theories of binocular vision and basics of Orthoptics included in the theory, forms the background for the student to understand binocular vision and ocular motility disorders.
OPTM 313	Assessment & Management of binocular vision – II	This course is a practical/laboratory session for the course OPTM 311. The practical skills needed to assess the binocular vision status of the eye is practiced in this course.
OPTM 316	Assessment & Management of binocular vision – III	This course focuses on to learn the clinical assessment of binocular vision anomalies and builds on the knowledge gained in OPTM 311.
OPTM 324	Assessment & Management of binocular vision – IV	This is a practical skill training course that works as a continuation of OPTM 313 to refine the binocular vision assessment skills and relate the results to explain binocular vision anomalies.
OPTM 321	Ophthalmic lenses & Dispensing – I	This course deals mainly with the prescription of lenses, prisms and frames, which form the backbone of optometric practice, prepares the students to work competently and confidently in the Clinical environment. Imparting the knowledge about surfacing and polishing, spherical, spherocylindrical, and bifocal spectacle lenses. To cut finished lenses



Document No.	QR-AAD-006
Issue No.	01
Revision No.	00
Effective Date	October 1, 2015

**Program Specifications**

Page 20 of 22

		according to various frame shapes and sizes and fit them in to frames after glazing. Make them capable of assessing facial and frame shape and sizes they are taught to evaluate all parameters, which are essential for an ideal spectacle fit. To check any defects in a finished lens before dispensing the lenses to a patient.
OPTM 323	Ophthalmic lenses & Dispensing – II	This course focuses to offer practical training for the spectacle lens dispensing sessions learning the OPTM 321.
OPTM 326	Ophthalmic lenses & Dispensing – III	This course will help the student to understand different lens options to manage a case of presbyopia. It will also help the student to understand various lens options which can be given as protective eyewear as well as special purpose spectacles.
OPTM 328	Ophthalmic lenses & Dispensing – IV	This course will give practical guidelines to students about different aspects of dispensing, presbyopic dispensing and trouble shooting. This will act as a continuation of the practical skills and knowledge that was gained in OPTM 323.
OPM 332	Contact Lens Practice – I	This course provides an introductory lecture for contact lens practice. Students will be able to appreciate various types of contact lenses, learn about conditions where contact lenses are beneficial and other situations where they cannot be used by patients.
OPTM 334	Contact Lens Practice – II	This course provides a hands-on training on routine contact lens examinations, maintenance, fitting and handling of soft contact lenses in a clinical set-up. This practical training sessions are conducted in a simulated learning environment.
OPTM 417	Contact Lens Practice – II	This course provides didactic lecture on specialty contact lens practice. Students will be able to gain knowledge on the application of contact lens in various eye conditions beyond traditional practice.
OPTM 401	Ocular & Systemic Disease – I	A sound knowledge and understanding of the epidemiology, clinical features and associated pathology of abnormal ocular and systemic conditions encountered in general optometric practice with a focus on anterior segment eye diseases. Ocular and systemic disease-I forms the background for the student to detect the disease that affect the eyes and visual system.
OPTM 402	Ocular & Systemic Disease – II	This course is a continuation of the course OPTM 401. This forms the background for the student to detect the disease that affect the eyes and visual system with a focus on posterior segment of the eye. This enable the students to appreciate the role of optometrist in the detection,




Document No.	QR-AAD-006
Issue No.	01
Revision No.	00
Effective Date	October 1, 2015

**Program Specifications**

Page 21 of 22

		provisional diagnosis and management and treatment of patients with disorders affecting the eye, periocular structure and the visual system.
OPTM 411	Low vision & Ageing – I	This course provides didactic lectures on topics relating to diagnosis and management of patients with low vision and visual impairment as well as optometric management of medical and ocular problems associated with ageing.
OPTM 413	Low vision & Ageing – II	This course provides practical lectures on clinical procedures and techniques involved in optometric management of low vision patient as well as optometric management of medical and ocular problems associated with ageing.
OPTM 409	Research Project – I	This is the first of two courses on optometric research project. Research Project 1 is an independent study course that prepares students in the research process. In this course students will learn the basics of researching a topic through literature review, analyzing the information gained, developing a hypothesis, creating an experimental design and applying ethical considerations. Plagiarism, publication policy, intellectual property rights are discussed. Students will have presentations on critical review of research articles on their topics and will be working independently with a supervisor to develop a realistic research proposal at the end of the semester.
OPTM 412	Research Project – II	This is the second course of an independent research project on an approved topic, supervised by a faculty member. It is the completion of the research process started in Research project I (OPTM409). Students proceed on data collection and conduct the experiment they proposed. Plagiarism, publication policy and intellectual property rights are further emphasized. The data are analyzed using appropriate statistical methods and a publication-quality written report is submitted, including a poster presentation at the end of the semester.
OPTM 403	General Clinical Practice – I	This course aims to provide experiential learning in real work environments that allows the student to deal safely, accurately, efficiently and courteously with patients who present for primary eye care examination and dispense them with appropriate visual aids.
OPTM 404	General Clinical Practice – II	This course is done as a co-requisite with general clinical practice – I provide students with clinical exposure in specialty optometry areas.
OPTM	Advanced Clinical	This course focuses on to prepare the candidate to apply



 <b>جامعة البريمي</b> <b>UNIVERSITY OF BURAIMI</b> Al Buraimi, Sultanate of Oman College of Health Sciences	Document No.	QR-AAD-006
	Issue No.	01
	Revision No.	00
	Effective Date	October 1, 2015
<b>Program Specifications</b>		Page 22 of 22

407	Practice – I	additional diagnostic tests that would support clinical decision making for the primary eye examination procedures
OPTM 408	Advanced Clinical Practice – II	This course aims to prepare the students to use advanced diagnostic instruments, interpret the results and incorporate them into clinical diagnosis.
OPTM 414	Clinical Case Studies	This module involves the study, in depth, of individual clinical cases so that students may gain a more thorough understanding of how to examine patients efficiently and find effective solutions to a range of clinical problems. The aim of this module is to develop students' applied skills in providing optometric services, appliances and advice, legally, appropriately and safely.
OPTM 416	Professional, Legal & Ethical Studies	This course outlines the legal context of optometry practice, including examination of rules and codes which govern the conduct of the practicing optometrist.