

CURRICULUM OF BIOMEDICAL SCIENCES DEPARTMENT
DIVISION : OPTICS & OPTOMETRY



University of West Attica
 Biomedical Sciences Department
 Optics & Optometry Division

STUDY YEAR 1

A' SEMESTER (W)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
1011-1012	1	ANATOMY I	3	2	5	180	7	CM/O*
1021-1022	2	GENERAL & INORGANIC CHEMISTRY	3	2	5	180	7	CM/O
1031	3	CELLULAR BIOLOGY	3	0	3	110	4	CM/O
1041-1042	4	BIOPHYSICS	3	2	5	180	7	CM/O
1051	5	BIOMEDICAL SCIENCES INFORMATICS	3	0	3	90	3	CM/O
1061	6	MATHEMATICS FOR BIOMEDICAL SCIENCES	2	0	2	60	2	CM/O
		TOTAL	17	6	23	800	30	

B' SEMESTER (S)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
2011	1	ANATOMY II	4	0	4	160	6	CM/O
2021	2	BIOCHEMISTRY	3	0	3	90	3	CM/O
2031	3	ORGANIC CHEMISTRY	3	0	3	90	3	CM/O
2041	4	INTRODUCTION TO BIOMEDICAL SCIENCES	2	0	2	60	2	CM/O
2051-2052	5	PHYSIOLOGY	4	2	6	210	8	CM/O
2061-2062	6	BIOSTATISTICS	2	2	4	160	6	CM/O
2071	7	BIOMEDICAL ENGLISH TERMINOLOGY	2	0	2	60	2	
		TOTAL	2	4	24	830	30	

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STUDY YEAR 2

C' SEMESTER (W)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
3011	1	PHARMACOLOGY	3	0	3	90	3	CM/O
3021	2	RESEARCH METHODOLOGY	4	0	4	120	4	CM/O
3031-3032	3	FIRST AID	2	2	4	120	4	CM/O
3041	4	GENERAL MICROBIOLOGY	4	0	4	120	4	CM/O
3051	5a	PHYSIOLOGY OF THE ORAL & MAXILLARY SYSTEM	3	0	3	90	3	SCM/OO**
3052	5b	ANATOMY OF THE EYE						
3053	5c	DISEASES NOSOLOGY						
3061	6a	ORAL & DENTAL TISSUES HISTOLOGY	4	0	4	140	5	SCM/OO
3062	6b	OPTICAL MATERIALS OF OPHTHALMIC LENSES & HISTORY OF GLASS						
3063	6c	BASIC PRINCIPLES OF SKIN COSMETOLOGY						
3064	6d	PATHOPHYSIOLOGY						
3065	6e	INTRODUCTION TO IRRADIATIONS						
3071-3072	7a	INTRODUCTION TO BIOMATERIALS FOR DENTAL TECHNOLOGY	4	2	6	180	7	SCM/OO
3073-3074	7b	GEOMETRICAL & PHYSICAL OPTICS						
3075-3076	7c	BASIC PRINCIPLES OF DERMATOLOGY						
3077-3078	7d	PRINCIPLES OF INSTRUMENTAL ANALYSIS						
3079-3080	7e	INTRODUCTION TO MEDICAL IMAGING & THERAPY						
		TOTAL	24	4	28	860	30	

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D' SEMESTER (S)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
4011 - 4012	1	OPTICAL & OPTOMETRIC INSTRUMENTS	4	2	6	18	7	SM/O
4021	2	EYE DISEASES	3	0	3	9	4	SM***
4031-4032	3	OPHTHALMIC LENSES DISPENSING I	4	2	6	18	7	SM
4041	4	INTRODUCTION TO OPTOMETRY	3	0	3	9	4	SM
4051	5	NEUROPHYSIOLOGY OF THE EYE	3	0	3	9	4	SM
4061	6	SYSTEMIC DISEASES & THE EYE	3	0	3	9	4	SM/O
		TOTAL	20	4	24	72	3	

STUDY YEAR 3

E' SEMESTER (W)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
5010	1	VISUAL OPTICS	4	0	4	120	6	SM
5021	2	BINOCULAR VISION	3	0	3	90	4	SM
5031	3	OCULAR PHARMACOLOGY	3	0	2	60	3	SM
5041-5042	4	OPHTHALMIC LENSES DISPENSING II	2	2	6	180	7	SM
5051-5052	5	BASIC OPTOMETRY	4	2	6	180	7	SM
5061	6	SAFETY & HYGIENE AT WORK FOR THE OPTICIAN - OPTOMETRIST	3	0	3	90	3	SM/O
		TOTAL	20	4	24	750	30	

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F' SEMESTER (S)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
6011-6012	1	CLINICAL OPTOMETRY	4	2	6	180	7	SM
6021	2	GLAUCOMA & PERIMETRY	3	0	3	90	5	SM
6031-6032	3	CONTACT LENSES I	4	2	6	180	7	SM
6041	4	LASER APPLICATIONS IN OPTOMETRY	3	0	3	90	4	SM
6051-6052	5	ORTHOPTICS	4	2	6	180	7	SM
		TOTAL	18	6	24	720	30	

STUDY YEAR 4

G' SEMESTER (W)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
7011-7012	1	SPECIAL OPTOMETRIC INVESTIGATIVE TECHNIQUES	3	2	5	150	6	SM
7021-7022	2	CONTACT LENSES II	4	2	6	180	7	SM
7031	3	ENVIRONMENTAL ILLUMINATION & VISION	3	1	4	120	5	SM
7041	4	LOW VISION AIDS	2	2	4	120	5	SM
7051	5	ETHICS FOR THE OPTICIAN-OPTOMETRIST	2	0	2	60	3	SM/O
7061	6	NEW TECHNOLOGIES IN OPTOMETRY	3	0	3	90	4	SM/OO
		TOTAL	17	7	24	720	30	

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H' SEMESTER (S)

Course Code	No.	COURSE	Theory hours	Lab hours	Total hours	Semester Load	ECTS	Module category
8011	1	DISSERTATION ¹	6	0	6	180	8	SM
8021	2	PRACTICAL TRAINING ²	0	0	0	240	1	SM
8031	3	VISION PROBLEMS IN THE ELDERLY	4	0	4	150	6	SM/O
8041	4	PREOPERATIVE ASSESSMENT	4	0	4	150	6	SM/O
8012	5	VISION PSYCHOLOGY	3	0	3	90	4	SCM
8013	6	COMMUNICATION SKILLS	3	0	3	90	4	CM
8022	7	MARKETING	3	0	3	90	4	CM
8023	8	ACCOUNTING & INVOICING	3	0	3	90	4	CM
8024	9	COMMERCIAL & LABOR LAW	2	0	2	60	2	CM
TOTAL			14	0	14	720	3	

Course Options for H' semester

1. Dissertation can be replaced with:
 - a. 8012 – VISION PSYCHOLOGY
 - b. 8013 – COMMUNICATION SKILLS

2. Practical training can be replaced with:
 - a. 8022 - MARKETING
 - b. 8023 – ACCOUNTING & INVOICING
 - c. 8024 – COMMERCIAL & LABOR LAW

Practical training will be for 4 months, full-time, 40 hours a week.

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ABBREVIATIONS

- * **CM** = Core **M**odule
- ** **SCM** = Specialty Core **M**odule
- *** **SM** = Specialty **M**odule
- O** = **O**bligatory
- OO** = **O**ptional **O**bligatory