

DEKALB TECHNICAL COLLEGE
Clarkston Campus

OPTICIANRY
ASSOCIATE IN APPLIED SCIENCE DEGREE
(Accredited by the Commission on Opticianry Accreditation)

Opticianry is about helping people – helping them obtain eyeglasses or contact lenses that can be worn comfortably and satisfy their visual, fashion, and lifestyle needs. The optician analyzes the doctor's written eye-correcting prescription and then measures, adapts, selects, and fits eyeglasses or contact lenses for the correction of visual and ocular anomalies. Opticianry is a health technology program wherein the student will learn to produce eyewear from basic laboratory components. Instruction is provided in the techniques of fitting, selecting, and adapting eyewear to patients. The student will also learn the instruments and basic techniques to fit, select, and evaluate contact lenses. Upon successful completion of the program, the student is eligible to apply for national certification and state licensure to become a Licensed Dispensing Optician (LDO). The Opticianry degree program is accredited by the Commission on Opticianry Accreditation.

Course Number	Course	Class Hours	Lab Hour	Total Hours	Credit Hours	Prerequisite/Corequisite
FIRST QUARTER						
MAT 196	Contemporary Mathematics	50	0	50	5	*
OPD 101	Introduction to Ophthalmic Optics	50	0	50	5	*
OPD 106	Optical Lab Techniques I	50	100	150	8	*
SCT 100	Introduction to Microcomputers	<u>10</u>	<u>40</u>	<u>50</u>	<u>3</u>	
	TOTAL	160	140	300	21	
SECOND QUARTER						
ENG 191	Composition and Rhetoric I	50	0	50	5	*, See catalog for pre-reqs
OPD 102	Eye Anatomy and Physiology	50	0	50	4	OPD 101
OPD 107	Optical Lab Techniques II	<u>50</u>	<u>100</u>	<u>150</u>	<u>8</u>	OPD 106
	TOTAL	150	100	200	17	
THIRD QUARTER						
HUM 191	Introduction to Humanities	50	0	50	5	*
OPD 108	Contact Lens Instrumentation	50	30	80	6	OPD 102
OPD 109	Frame Selection and Dispensing	30	90	120	6	OPD 107
OPD 103	Applied Optical Theory	<u>50</u>	<u>0</u>	<u>50</u>	<u>5</u>	OPD 101
	TOTAL	180	120	300	22	
FOURTH QUARTER						
SPC 191	Fundamentals of Speech	50	0	50	5	*
OPD 111	Soft Contact Lenses	30	90	120	6	OPD 108
OPD 112	Eyewear Lens Selection & Dispensing	<u>30</u>	<u>100</u>	<u>130</u>	<u>6</u>	OPD 109
	TOTAL	110	190	300	17	
FIFTH QUARTER						
AREA III	Behavioral Science	50	0	50	5	*
OPD 113	Rigid Contact Lenses	30	90	120	6	OPD 111
OPD 114	Opticianry Sales	<u>30</u>	<u>100</u>	<u>130</u>	<u>6</u>	OPD 112
	TOTAL	110	190	300	17	
SIXTH QUARTER						
AREA III	Social/Behavioral Science	50	0	50	5	*
OPD 117	Contact Lens Review	20	40	60	3	OPD 113
OPD 118	Opticianry Review	20	40	60	3	OPD 114
OPD 119	Opticianry Dispensing OBI	<u>0</u>	<u>180</u>	<u>180</u>	<u>6</u>	OPD 114
	TOTAL	90	260	350	17	

*Program admission level English, reading, and/or math competency required.

CIP CODE: 51.180103

MAJOR CODE: OD03

REQUIRED CREDIT HOURS: 111

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The curriculum is subject to change to meet changing conditions. As set forth in its catalog, DeKalb Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, veteran status, or citizenship status (except in those special circumstances permitted or mandated by law).

OPTICIANRY COURSE DESCRIPTIONS

OPD 101 – INTRO TO OPHTHALMIC OPTICS (5)

Prerequisite: Program admission level English, reading, math
Introduces students to the eye-care field and the profession of opticianry. Emphasis is placed on the scope of activities performed by opticians. Topics include: eye-care profession, major divisions of opticianry, basic ocular anatomy, light and refraction, vision problems, and corrective lenses.

OPD 102 - EYE ANATOMY AND PHYSIOLOGY (4)

Prerequisite: OPD 101

Develops students' knowledge of the anatomy and physiology of the eye. Emphasis is placed on corneal metabolism and its accommodation of a contact lens. Topics include: anatomy and physiology of the eye, eye diseases and abnormalities, corneal metabolism, drugs and treatment methods, and ophthalmic terminology.

OPD 103 - APPLIED OPTICAL THEORY (5)

Prerequisite: OPD 101

Introduces the properties of light and the laws of geometrical optics. Emphasis is placed on understanding major theories of light and the principles of plane and curved surfaces of mirrors and lenses. Topics include: light and vision, refraction, lens modified light, lens systems, and advanced optical calculations.

OPD 106 - OPTICAL LAB TECHNIQUES I (8)

Prerequisite: Program admission level English, reading, and math scores

Introduces the operations involved in lens fabrication. Emphasis is placed on gaining knowledge of equipment requirements and developing surfacing and finishing techniques. Topics include: lens processing terminology, surfacing and finishing equipment, lens blank selection and layout, surfacing techniques, finishing techniques, inspection of lenses, and insertion techniques.

OPD 107 - OPTICAL LAB TECHNIQUES II (8)

Prerequisite: OPD 106

Continues study of lens fabrication. Emphasis is placed on using specialized lens materials and multifocal surfacing and finishing techniques. Topics include: specialized lens blanks, multifocal lenses, inspection of multifocal lenses, optical calculations, high index lenses, frame repairs, and optical equipment maintenance.

OPD 108 - CONTACT LENS INSTRUMENTATION (6)

Prerequisite: OPD 102

Introduces the field of contact lenses. Emphasis is placed on the development of contact lenses to correct visual defects, types of contact lenses and consumer selection. Topics include: history of contact lens, contact lens instruments, contact lens terminology, corneal topography, lens types, pre-fitting evaluation, and adverse effects of lens wear.

OPD 109 - FRAME SELECTION AND DISPENSING (6)

Prerequisite: OPD 107

Introduces frame selection and dispensing techniques. Emphasis is placed on gaining clinical experience in providing service to the eyewear consumer. Topics include: ocular measurements, frame selection, frame materials, eyewear fitting techniques, lensmeter operation, administrative procedures, and lens finishing.

OPD 111 - SOFT CONTACT LENSES (6)

Prerequisite: OPD 108

Introduces soft contact lens fitting techniques. Emphasis is placed on fitting trial and prescribed lenses. Topics include: selection of lens, inspection and verification, fitting guidelines and regulations, follow-up care, lens care and storage, and fitting bandage lenses.

OPD 112 - EYEWEAR LENS SELECTION AND DISPENSING (6)

Prerequisite: OPD 109

Continues study of eyewear dispensing techniques. Emphasis is placed on gaining clinical experience in providing service to the eyewear consumer. Topics include: special lens coatings, lens finishing, use and care of eyewear, matching lens needs to consumer lifestyle, and optical physiological and psychological problems.

OPD 113 - RIGID CONTACT LENSES (6)

Prerequisite: OPD 111

Continues study of contact lenses with emphasis on rigid and gas permeable trial and prescription lens fitting techniques. Topics include: selection of lens, inspection and verification, fitting guidelines and regulations, follow-up care, lens care and storage, and fitting optional feature lenses.

OPD 114 - OPTICIANRY SALES (6)

Prerequisite: OPD 112

Introduces techniques of Opticianry sales and emphasizes effective consumer service. Topics include: information gathering; communications with consumers, prescribers, and suppliers; ophthalmic sales skills, and effective consumer services and problem solving.

OPD 117 - CONTACT LENS REVIEW (3)

Prerequisite: OPD 113

Continues study of contact lenses dispensing knowledge and skills. Emphasis is placed on reviewing types of contact lenses, fitting techniques and further development of associated skills. Topics include: soft contact lens fitting, hard contact lens fitting, contact lens instrumentation, effective consumer service, and contact lens regulations.

OPD 118 – OPTICIANRY REVIEW (3)

Prerequisite: OPD 114

Continues study of Opticianry knowledge and skills. Emphasis is placed on reviewing optical theory, laboratory procedures, and further development of associated skills. Topics include: optical laboratory, frames and lenses, dispensing techniques, eyewear sales, and eyewear regulations.

OPD 119 - OPTICIANRY DISPENSING OCCUPATION-BASED INSTRUCTION (6)

Prerequisite: OPD 114

Continues study of Opticianry techniques. Emphasis is placed on gaining clinical experience in providing service to the ophthalmic consumer. Topics include: special visual problems, contact lenses, analyzing ophthalmic problems, ordering procedures, marketing eyewear, and work attitudes. The occupation-based instruction is implemented through the use of a practicum or internship and all the following: written individualized training plans, written performance evaluation, and required weekly seminar.

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**ESTIMATED PROGRAM COSTS
OPTICIANRY
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First Quarter

Tuition/Fees	\$544.00
Books	215.00
Supplies	25.00
Liability Insurance	15.00
Total	\$799.00

Second Quarter

Tuition/Fees	\$544.00
Books	75.00
Tool Kit	245.00
Total	\$864.00

Third Quarter

Tuition/Fees	\$544.00
Books	325.00
Supplies	25.00
Total	\$894.00

Fourth Quarter

Tuition/Fees	\$544.00
Books	170.00
Total	\$714.00

Fifth Quarter

Tuition/Fees	\$544.00
Books	170.00
Total	\$714.00

Sixth Quarter

Tuition/Fees	\$544.00
Books	125.00
Liability Insurance	15.00
Total	\$684.00

Total Cost **\$4,669.00**

Tuition/fees and cost of books/supplies are estimates only and are subject to change without notice. Tuition is based on Georgia residency.

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