

# CURRICULUM STANDARD

*Effective Term  
Summer 2001  
[2001\*02]*

Curriculum Program Title	<b>Optical Laboratory Mechanics (Certificate)</b>	Code	<b>C45540</b>
Concentration	<b>(not applicable)</b>		

## *Curriculum Description*

This curriculum is designed to prepare students to fabricate eyewear from a physician's prescription, assembling lenses and frames, and making standard alignments.

Course work includes optical theory, the anatomy of the eye, and ophthalmic laboratory skills.

Graduates should qualify for employment in retail stores with laboratory facilities or in wholesale ophthalmic laboratories.

## *Curriculum Requirements\**

*[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]*

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
<b>Total Semester Hours Credit (SHC)</b>	<b>64-76</b>	<b>36-48</b>	<b>12-18</b>

\*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

## **Major Hours**

[ref. 23 NCAC 02E.0204 (3)]

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

### **Optical Laboratory Mechanics (Certificate) C45540\*\***

	<b>AAS</b>	<b>Diploma</b>	<b>Certificate</b>
<b>Minimum Major Hours Required</b>	<b>49 SHC</b>	<b>30 SHC</b>	<b>12 SHC</b>
<b>A. CORE</b>  <b>Required Courses:</b> OPH 101 Math for Opticians 3 SHC OPH 111 Ophthalmic Laboratory I 3 SHC OPH 112 Ophthalmic Laboratory II 3 SHC OPH 113 Ophthalmic Laboratory III 2 SHC OPH 130 Introduction to Opticianry 2 SHC OPH 141 Optical Theory I 3 SHC OPH 214 Ophthalmic Laboratory IV 2 SHC OPH 281 Optical Externship I 1 SHC  <b>Required Subject Areas:</b> None			<b>19 SHC**</b>
<b>B. CONCENTRATION</b> (Not applicable)			<b>NA</b>
<b>C. OTHER MAJOR HOURS</b> (Not applicable)			<b>NA</b>
<b>D. OTHER REQUIRED HOURS</b> (Not applicable)			<b>NA</b>

\*\* This program is approved by the State Board of Community Colleges to exceed maximum standard hours for a certificate program.  
 [ref. 23 NCAC 02E.0201(d)] .