

**California State University,
Los Angeles
Division of Extended Education**

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Division of Extended Education
5151 State University Drive
Los Angeles, CA 90032-8619
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**Textile Production and
Management
Certificate Program**

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Program Description

The textile and apparel industry in Southern California employs approximately 128,000 people in all aspects of design, product development, manufacturing and marketing. This industry is highly sophisticated and includes fashion and market research, brand licensing, intellectual property rights, design, materials, engineering, product manufacturing, marketing and distribution.

The competitive advantage of the Los Angeles textile industry is in design flexibility, quick response, and the ability to diversify product lines. The textiles industry includes fabric development, manufacturing, dyeing, printing and finishing. The markets served by the textile industry include fashion apparel, outdoor and active wear, and industrial uses. The textile industry also impacts industries such as home furnishings, furniture, toys, entertainment, and costuming.

This certificate program offers working professionals in the textile industry a coordinated series of courses for professional education and career enhancement. It is directed toward people in the textile industry who desire to increase their knowledge of their industry in order to advance their careers. Completion of this certificate program will help to fill the need for training resources for technical and management personnel in the textile industry and related industries.

Program Objectives

- Provide an opportunity for students to acquire high-demand job skills for their future employment.
- Provide an opportunity for professional job retraining.
- Provide a textile education in an industry of high demand in the Los Angeles region.
- Enhance the course offerings for textile production and management to provide a fully developed certificate program for comprehensive training.

Target Participants

This certificate program is valuable for working professionals who desire to increase their knowledge of their industry in order to advance their careers. This includes individuals interested in:

- Increasing knowledge in fabric design and knit constructions.
- Increasing knowledge of dyeing and finishing.
- Understanding the job skills necessary for textile plant management and production.
- Understanding the environmental and trade issues.

Admission Requirements

A high school diploma or equivalent education and two years experience in the textile and/or apparel industry or referral from present employer. English comprehension required.

Certificate Requirements

The program consists of nine courses, five of which are required and four that are electives. All of the courses will be offered through the Division of Extended Education for a total of ten Continuing Education Units (CEUs). Courses not applicable for academic credit or transfer.

Upon completion of the five required courses and four electives, the participant will be awarded a Certificate of Completion by the Division of Extended Education. Those who elect to take only individual courses will receive a Letter of Completion from the Division of Extended Education for each course taken upon request.

Required Courses

5 Courses, 6 CEUs

Introduction to the Los Angeles Textile and Apparel Industry	1 CEU
Fibers, Yarns, and Fabrics	2 CEUs
Knit Constructions (on-site/textile mill)*	1 CEU
Textile Applications	1 CEU
Textile Quality Control	1 CEU

* Limited to 12 students/course fee may vary.)

Elective Courses

Select 4 Courses, 4 CEUs

Fabric Design	1 CEU
Fabric Finishing	1 CEU
Fabric Printing	1 CEU
Textile Dyeing and Color Analysis I	1 CEU
Textile Dyeing and Color Analysis II	1 CEU
Textile Marketing and Sales	1 CEU
Textile Plant Management	1 CEU
Textile Economics	1 CEU
Special Topics in Textiles	1 CEU

Courses will be held in downtown Los Angeles locations.

CEUs

The Continuing Education Unit (CEU) is a flexible unit measurement for non-credit continuing education activities, courses and programs, and non-traditional modes of non-credit continuing education activities, including various forms of independent and informal study.

Course Descriptions

Introduction to the Los Angeles Textile and Apparel Industry 1 CEU

Overview of textile and apparel industry in Los Angeles including textile production, dyeing, finishing, and product development. Forecasting and trend analysis for the fashion and textile industry. Levels of industry. This is a required core course for the program.

Fibers, Yarns, and Fabrics 2 CEUs

Basic terminology, characteristics, and elements of textiles, including factors affecting performance and aesthetics. Includes influence of fiber choice, yarn construction, and fabric construction. This is a required core course for the program.

Knit Constructions 1 CEU

Prerequisites: Introduction to the Los Angeles Textile Industry and Fibers, Yarns, and Fabrics
Basic structure of knit fabrics, with emphasis on weft knits. Fabric and yarn analysis. Stitch formation and patterning. Basics of knit machinery operation. May be offered at onsite facilities. This is a required core course for the program.

Textile Applications 1 CEU

The application of textiles to the manufacturing of apparel and home furnishings. Legal and ethical issues, analysis, research and development, guidelines, and terminology. This is a required core course for the program.

Textile Quality Control 1 CEU

Textile production quality control standards including laboratory standards, bench marks, terminology, and acceptable standards for classes of retailers. This is a required core course for the program.

Fabric Design 1 CEU

Prerequisite: Fibers, Yarn, and Fabrics.

Fabric development and formation, new fiber technology, terminology for fabric design, CAD applications and applications to garment production. This is an elective course.

Fabric Finishing 1 CEU

Basic techniques, treatments, and processes of fabric finishing. Terminology, mechanical and chemical finishes, permanent and temporary finishes, colorfastness issues. Safety, standards, and problems. This is an elective course.

Fabric Printing 1 CEU

Fabric Printing Terminology: silk screening, strike-offs, pigment, reactive dye, ink-jet, digital printing methods. Registering printing, fabric production management and problems. This is an elective course.

Textile Dyeing and Color Analysis I 1 CEU

Terminology related to color, dyes and dyeing processes. Techniques and problems with dyeing knitted and woven goods for fashion apparel, outdoor/activewear, bodywear/intimate apparel, swimwear, and industrial uses. Technical language equivalents for Spanish, Korean, and English. This is an elective course.

Textile Dyeing and Color Analysis II 1 CEU

Prerequisite: Textile Dyeing & Color Analysis I
Chemistry of dyes and color. Dyeing of specialty fibers and fabric constructions. Garment dyeing and washing. Government regulations for dyeing industry. Environmental issues including water and energy usage and waste treatment. This is an elective course.

Textile Marketing and Sales 1 CEU

Prerequisites: Introduction to the Los Angeles Textile Industry; Fibers, Yarns and Fabrics
Principles of marketing and sales applied to the textile industry. Emphasis on business-to-business marketing. Customer behavior, selling processes and relationship marketing. This is an elective course.

Textile Plant Management 1 CEU

Prerequisites: Introduction to the Los Angeles Textile Industry; Fibers, Yarns and Fabrics
Management of textile manufacturing and processing operations. Includes capacity, inventory, supply, facilities, human resources, quality and safety issues. This is an elective course.

Textile Economics 1 CEU

Quotas, duties, tariffs in the fashion and textile industry. Strategies and impact of WTO, CAFTA, NAFTA, laws and government regulations, import and export opportunities and regulations. This is an elective course.

Special Topics in Textiles 1 CEU

Prerequisite: Instructor consent and as needed for specific topic. Current topics of special interest to textile production and management certificate students, as announced in the Division of Extended Education Bulletin. This is an elective course.

For more information about this certificate program, please contact

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