

TECHNICAL DESIGN AND PRODUCT DEVELOPMENT, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 1_AS_TDPD

Financial Aid Eligible

The Technical Design & Product Development Associate in Science will incorporate general education courses and major coursework to provide students with core skills in pattern making, garment construction, fashion history, color theory, industry-specific computer programs, and sustainability. Students will also gain knowledge in directed skills related to production processes, intermediate clothing construction, computer-aided pattern making, and 3D design software. Upon completion, students will be prepared for transfer and/or entry-level employment in the fields of garment construction, costume stitching, alterations, pattern making, tailoring, and dressmaking in the fashion industry, and related businesses.

Program Outcome

1. Students will have the general education breadth to transfer to applicable four-year programs.
2. Students will demonstrate a working knowledge of computer pattern making and 3D design software.
3. Students will be able to plan, execute, and evaluate technical packages, with special attention to the skills involved in product development.
4. Students will be able to design & analyze technical design sketches.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Course	Title	Units
Required Courses		
FASH A100	Beginning Clothing Techniques	1.5
FASH A102	Industrial Sewing Techniques ¹	2
FASH A110	Applied Textiles and Design	3
FASH A115	Introduction to the Fashion Industry	3
FASH A120	History of Fashion	1.5
FASH A121	Street Style	1.5
FASH A145	Fashion Reporting and Analysis	2
FASH A150	Flat Pattern Techniques	3
FASH A155	Tech-Packs	2.5
FASH A170	Clothing Design and Selection	3
FASH A175	Applied Color and Design Theory	3
or ART A110	Color and Design: Two-Dimensional	
FASH A180	Fundamental Principles of Clothing Construction 1	3
FASH A181	Fashion Internship	2
FASH A182	Professional Practices	2

Course	Title	Units
FASH A183	Fundamental Principles of Clothing Construction 2	3
FASH A190	Apparel Industry Sustainability: Environmental, Ethical, & Legal Practices	3
FASH A200	Fashion Internship Lecture	1
FASH A255	Fashion Illustrating Techniques 1	3
FASH A260	Fashion Design/Production Process	3
FASH A263	3D Clothing Design	2
FASH A266	Computerized Pattern System	2
Total Units		50

¹ May be offered only in Summer.

Requirement	Units
Minimum Program Major Units	50
AS General Education Option 1, 2, or 3	Varies
Total Minimum Degree Units	62

Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

Some courses in this program may be offered once per academic year.

Course	Title	Units
Year 1		
Semester 1		
FASH A100	Beginning Clothing Techniques	1.5
FASH A110	Applied Textiles and Design	3
FASH A115	Introduction to the Fashion Industry	3
FASH A120	History of Fashion	1.5
FASH A121	Street Style	1.5
FASH A255	Fashion Illustrating Techniques 1	3
Units		13.5
Semester 2		
FASH A145	Fashion Reporting and Analysis ¹	2
FASH A170	Clothing Design and Selection ²	3
FASH A183	Fundamental Principles of Clothing Construction 2 ¹	3
FASH A150	Flat Pattern Techniques	3
OCC AS GE AREA A1 - CHOOSE ONE		3
OCC AS GE AREA C2 - CHOOSE ONE ³		3
Units		17
Summer		
FASH A102	Industrial Sewing Techniques ⁴	2
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better): ⁵		3-4

Course	Title	Units
MATH A030 or MATH A045	Intermediate Algebra (or Higher) or Combined Elementary and Intermediate Algebra	
Units		5-6
Year 2		
Semester 1		
FASH A155	Tech-Packs ⁶	2.5
FASH A180	Fundamental Principles of Clothing Construction 1 ⁶	3
FASH A190	Apparel Industry Sustainability: Environmental, Ethical, & Legal Practices	3
FASH A266	Computerized Pattern System ⁷	2
FASH A175 or ART A110	Applied Color and Design Theory ⁸ or Color and Design: Two-Dimensional	3
Units		13.5
Semester 2		
FASH A181	Fashion Internship	2
FASH A200	Fashion Internship Lecture	1
FASH A182	Professional Practices ¹	2
FASH A260	Fashion Design/Production Process ¹	3
FASH A263	3D Clothing Design ¹	2
OCC AS GE AREA B - CHOOSE ONE ³		3
OCC AS GE AREA A2- CHOOSE ONE ⁹		0-4
Units		13-17
Total Units		62-67

¹ Spring term only² GE Option 1 Area D³ Can be taken during Winter/Intersession⁴ Summer and Fall term only⁵ Math requirement needed if not met by HS Algebra 2, 100+ level Math courses will satisfy OCC GE Area A2.⁶ Fall term only⁷ ADVISORIES: FASH A150: Flat Pattern Techniques, FASH A110: Applied Textiles and Design, FASH A266 Fall term only⁸ Same as ID A175, GE Option 1 Area C1⁹ Required if level Math 100+ was not taken