WEAVING (WEAV)

WEAV 201: Weave Technology I
The structures and analysis of woven fabrics will be studied utilizing CAD, pick outs and laboratory assignments on industrial equipment. Weave structures will include plain, twills and satins (with their derivatives), color effects, textural effects (cords, piques, etc.) and pile weaves. Fabric will be mathematically analyzed for weight, yarn size, fabric count and yarn crimp to specify fabric structure. Necessary loom controls (draw, chains and reed plans) will be used to relate lectures and laboratory work on dobby looms.
Credits: 3
College: School of Design & Engineering
Prerequisites: TEXT 101 or TEXT 104 [Min Grade: D]
Schedule Type: Lab, Lecture, Lecture/Lab

WEAV 207: Weave Design Studio I
This course focuses on the effects and interactions that yarn, color, texture and structure play in woven design. Working with multi-harness floor looms and dobby looms, students create warps and chains, and weave prototype cloth for various end uses.
Credits: 3
College: School of Design & Engineering
Prerequisites: WEAV 201 [Min Grade: D]
Schedule Type: Lecture, Lecture/Studio Combination, Studio

WEAV 226: Jacquard
The principles and equipment involved in the design and production of Jacquard fabrics are studied. Students analyze, design and produce complex Jacquard fabrics on commercial equipment including computerized design and production systems.
Credits: 4
College: School of Design & Engineering
Prerequisites: WEAV 201 [Min Grade: D]
Schedule Type: Lecture, Lecture/Studio Combination, Studio

WEAV 301: Weave Technology II
The variations, function, auxiliary devices and design characteristics of cam, dobby and Jacquard weaving machines, and the equipment used to support the weaving process are studied; along with relevant calculations regarding time, materials and production of fabrics.
The technique required to accurately analyze fabrics for all critical components and methods to design fabrics for specific weight and compact cover, with consideration given to yarn size, texture, fiber type, weave and other fabric parameters, will be learned. Advanced multi-layer weaves will be studied, analyzed and woven.
Credits: 4
College: School of Design & Engineering
Prerequisites: WEAV 201 [Min Grade: D]
Schedule Type: Lab, Lecture, Lecture/Lab

WEAV 307: Weave Design Studio II
The study of elements of woven design is brought to the problems of multi-layered cloth, compound weaves, block designs and other advanced structures. Students use several CAD programs in conjunction with AVL compu-dobbies to increase their design capabilities. Multi-harness floor looms and dobby looms are also used to develop cloth from concept to actuality.
Credits: 3
College: School of Design & Engineering
Prerequisites: TEXT 206 [Min Grade: D]
Schedule Type: Lecture, Lecture/Lab, Lecture/Studio Combination, Studio

WEAV 327: Weave Design Studio III
Through an advanced study in woven-textile design, students develop a comprehensive working knowledge of the process of styling fabric for specific textile markets. Depending on the projects? parameters, students may use AVL compu-dobbies, multi-harness floor looms and/or dobby looms.
Credits: 3
College: School of Design & Engineering
Prerequisites: WEAV 307 [Min Grade: D]
Schedule Type: By Appointment - 1 student, By Appointment, Lecture, Studio

WEAV 401: Introduction to Woven Design
Credits: 3
College: School of Design & Engineering
Schedule Type: Lecture, Studio