

# APPLIED INDUSTRIAL TECHNOLOGY (FLOORLAYING) (ATFL)

## ATFL-1010 Intro to the Floor Covering Industry 2 Credits

Introductory course covering most aspects and characteristics of the floor laying industry including vinyl composition tile, carpet and ceramic tile and required transitions. In addition, installation procedures, including substrate preparation and edging for polished concrete and resinous floors and respective lay out practices are demonstrated and applied.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval and a current member of the Carpenter Union*

## ATFL-1020 Introduction to Hard Tile 2 Credits

Introductory course covering ceramic tile installations including tile types, substrate requirements, mortar specifications and backer board selection. Also covered are basics of reading construction drawings and grid layout procedures. Demonstration and application of substrate preparation, mortar selection and mixing and layout and installation practices using ceramic tile is an integral part of this course.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval and a member in good standing in the United Brotherhood of Carpenters and Joiners of America Union UBC.*

## ATFL-1300 Residential Installation 2 Credits

Introduction to residential flooring products and installation procedures. Includes residential carpet and vinyl product knowledge, and custom installation (borders, insets, patterns, and upholstered stairs). Also includes customer relations, etiquette, and communication skills related to residential work.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval: admission to any Applied Industrial Technology program.*

## ATFL-1450 Floorlaying Concepts 2 Credits

Comprehensive study of floorlaying essentials, including material properties, measurement techniques, types and applications of various sheet good adhesives, identification and use of hand tools and power equipment used in the floorlaying industry. Also included are concepts commonly found in construction blueprints including symbols, abbreviations, and conventions required in drawing interpretation. Floor preparation for installations of tile, sheet goods, carpeting, hardwood, laminates and ceramics also included.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval: admission to Applied Industrial Technology Floorlaying program.*

## ATFL-1600 Modular Tile 2 Credits

Basics of modular tile installation. Includes math and geometry concepts required for estimating materials, room layouts and interpreting construction drawings.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts, or departmental approval: admission to Applied Industrial Technology Floorlaying program.*

## ATFL-1610 Jute & Action Back Carpeting 2 Credits

Carpeting and manufacturing process as related to jute and action-back product types. Topics include material, hand and power tools, job preparation, layout and installation procedures, and interpretation of construction drawings.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval.*

## ATFL-1620 Ceramics I 2 Credits

Wall and floor treatment, grouting and installation of ceramic tile. Includes related math and blueprint reading exercises.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1610 Jute and Action Back Carpeting or concurrent enrollment, or departmental approval.*

## ATFL-1630 Wood Flooring I 2 Credits

Wall and floor treatment, grouting and installation of ceramic tile. Includes related math and blueprint reading exercises.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment; or departmental approval: admission to any Applied Industrial Technology program.*

## ATFL-1640 Sheet Goods Concepts 2 Credits

Floor installation requiring special treatment of adhesives and seam, sheet good products requiring interflex systems, heat seam welding and/or chemical welding. Also presented will be product usage and handling and application of concepts and materials.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval: admission to any Applied Industrial Technology program.*

## ATFL-1650 Sheet Goods - Flash Coving 2 Credits

Products and components used in flash cove and sanitary floor installation. Topics include techniques of installation, blueprint reading and use of applicable tools.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, and ATFL-1640 Sheet Goods Concepts or concurrent enrollment; or departmental approval: admission to any Applied Industrial Technology program.*

**ATFL-1710 Velcro and Modular Carpeting**

**2 Credits**

Carpeting and manufacturing process as related to Velcro and modular product types. Includes materials, hand and power tools, job preparation, layout and installation procedures, and interpretation of construction drawings.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval: admission to any Applied Industrial Technology program.*

**ATFL-1720 Sheet Goods - Geometric Layout and Inlay**

**2 Credits**

Study of advanced floorlaying techniques used in layout and installation of sheet goods in specialty situations including geometric shapes and producing templates.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1650 Sheet Goods - Flash Coving or concurrent enrollment, and ATFL-1450 Floorlaying Concepts or concurrent enrollment; or departmental approval: admission to any Applied Industrial Technology program.*

**ATFL-1730 Unitary Back and Enhancer Back Carpeting**

**2 Credits**

Carpeting and manufacturing processes as related to Unitary Back and Enhancer Back product types. Topics include materials, hand and power tools, job preparation, layout and installation procedures, and interpretation of construction drawings.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or ATFL-1710 Velcro and Modular Carpeting or concurrent enrollment; or departmental approval: admission to Applied Industrial Technology program.*

**ATFL-1801 Special Topics: Intro to the Floor Covering Industry**

**2 Credits**

Introductory course covering most aspects and characteristics of the floor laying industry including vinyl composition tile, carpet and ceramic tile and required transitions. In addition, installation procedures, including substrate preparation and edging for polished concrete and resinous floors and respective lay out practices are demonstrated and applied.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval and a current member of the Carpenter Union*

**ATFL-1808 Special Topics in Introduction to Hard Tile**

**2 Credits**

Introductory course covering ceramic tile installations including tile types, substrate requirements, mortar specifications and backer board selection. Also covered are basics of reading construction drawings and grid layout procedures. Demonstration and application of substrate preparation, mortar selection and mixing and layout and installation practices using ceramic tile is an integral part of this course.

*Lecture: 2 hours*

*Prerequisite(s): Departmental approval and a member in good standing in the United Brotherhood of Carpenters and Joiners of America Union UBC.*

**ATFL-2300 Ceramics II**

**2 Credits**

Ceramics design, material and tile installation in wet areas such as food prep, pools, shower and laundry.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1620 Ceramics I or concurrent enrollment, or departmental approval.*

**ATFL-2320 Wood Flooring II**

**2 Credits**

Advanced flooring systems using acrylic, engineered, and laminate systems with special attention given to custom layouts such as herringbone and diagonal installations, riser, tread, bullnose installation, and proper floor sanding techniques.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval.*

**ATFL-2400 Sheet Goods-Specialty Products**

**2 Credits**

Study of specialty flooring systems, requiring antibacterial protection and wet areas needing moisture close tolerance installation. Course also includes presentations, one-piece flash coving demonstrations, heat welded seams demonstrations, and cutting and fitting special components such as cove steps and cap metals.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1640 Sheet Goods Concepts, or concurrent enrollment, and ATFL-1650 Sheet Goods - Flash Coving, or concurrent enrollment and departmental approval.*

**ATFL-2430 Woven and Axminster Carpeting**

**2 Credits**

Carpeting and manufacturing process as related to woven and axminster product types. Includes materials, hand and power tools, job preparation, layout and installation procedures, and interpretation of construction drawings.

*Lecture: 2 hours*

*Prerequisite(s): ATFL-1450 Floorlaying Concepts or concurrent enrollment, or departmental approval.*