



ACCF IDBM 390 TECHNOLOGY OF BUILDING MATERIALS 1

Program	Three-year course in Design
Course	Applied Arts and Technology of Materials
Credits	3
Professor	Rosalba Romanelli

Course Description	<p>The study of an interior or exterior space will prepare the student to comprehend simple solutions regarding a particular combination of different materials. Students will learn or will deepen their knowledge of the appropriate use of these materials according to different zones and use of the living space. The course aims to provide students with the widest basic and technological knowledge needed to complete an interesting and quick project, according to the client's request.</p> <p>The correct use of materials is learned in theoretical lessons and expanded upon through guided visits to principal stores, show rooms and local industries.</p> <p>The primary purpose of the course is to provide students with ample direct knowledge of the materials generally used in interior and exterior design. The projects developed by students will include the use of new materials suggested by the instructor.</p> <p>Students will pay particular attention to the free-hand drawing of the represented material and will also present their research of the application and the use of materials studied throughout the course.</p>
Learning Objectives and Outcomes	<p>At the end of the course the student will be able to:</p> <ul style="list-style-type: none">• Apply their cognitive skills as an instrument for problem solving.• Understand and apply the use of various compositions in a coherent way.• Communicate their own solutions, according to the client's needs and different situations.• Identify the intended client, organize resources, manage important tasks, and respect deadlines in order to reach pre-established goals.• Develop an independent working plan.
Student Assessment	<p>The evaluation of this course is mainly based on students' work completed throughout the semester and on the results of the final exam.</p> <p>The final grade will be based on the portfolio of students' works that will demonstrate the various techniques used to show the most appropriate and professional solutions.</p> <p>IMPORTANT NOTE!!! Students will present, as support to their final portfolio, a personal free-hand drawing notebook containing the ideas and the sketches that show the steps leading to their final projects.</p> <p>The student will be assessed on his/her:</p> <ul style="list-style-type: none">• Ability to express and communicate their ideas through different illustration techniques and according to clients' requests.• Ability to use lines, shapes, and colors coherently.• Accurate presentation of their work.• Presentation of a personal drawing notebook.

Bibliography, Webography, Filmography	<ul style="list-style-type: none"> • N. Gibbs, Encyclopedia of Wood, Ed. Il Castello 2012 • Morwenna Brett, Encyclopedia of Tile - Ed. Il Castello, 2012 • Cat Martin, <i>Enciclopedia dei materiali da rivestimento</i> - Ed. Il Castello, 2005 (italiano/inglese) • Abigail Trow, Surface Texture, Finishes and Materials for Stylish Interior, Ed.: Rotovision • Serena Omodeo Salè, <i>Verdeaureo dell'Architettura</i>, Ed: Maggioli, 2006
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Week 1	Introduction to the course, syllabus and lecture-notes review. Wood flooring. The parquet: laying geometries and laying directions. Project exercise to complete for the MID-TERM: design creation for a parquet floor type "border, connector and mainbody".
Week 2	Parquet flooring: space effects/ "dynamic space" produced by various layouts of wooden strips. The direction of the light, position of windows and consequent effects on the final aspect of a wood flooring. RESEARCH: Dimension, size and actual costs of different types of parquet strips. WORKS REVIEW.
Week 3	Laying techniques. Processing and methods of parquet finishing. Principal matching between the different finishing styles. WORKS REVIEW.
Week 4	REVISION SESSION
Week 5	Design an interior for a loft: organize the interior space for a specific customer that could combine living and office areas. WORKS REVIEW
Week 6	MID-TERM WEEK - Midterm exam: deadline for submission, review of topics, exercises in class 1. Project: parquet flooring 2. Research on the cost of different kind of wood 3. Summer research
Week 7	Ceramic flooring. Ceramic production. Applicable differences between "monocottura" and "bicottura". RESEARCH: Dimension, size and costs in general. WORKS REVIEW
Week 8	Study of staircases, steps, platforms and false ceilings. RESEARCH: costs estimate of ceramic tiles used in the bathroom for the loft. WORKS REVIEW
Week 9	Rock classification. Marble, Granite, Stones. Marble extraction in Tuscany. Use of Stones and Marble in an interior design project. Terracotta production in Tuscany. Laying techniques. Finishing techniques. RESEARCH: Dimension, size, costs in general. WORKS REVIEW
Week 10	Electrical systems – lighting concepts. Conventional indications used on a building plan for identifying spotlights and electrical systems. Application of this information to the current project. WORKS REVIEW
Week 11	REVISION SESSIONS
Week 12	REVISION SESSIONS

Week 13

Final evaluation of student portfolios