

Architecture Assessment Plan Rev. 4/21/2020

Architecture	16-17	17-18	18-19	19-20	20-21	21-22
ARCHB1 - Introduction to Architecture and Environmental Design						
• 1. Upon successful completion the student will be able to develop an awareness of the importance of the field of architecture in today's society and market place and their relationship to the other environmental design fields.				P		P
• 2. Upon successful completion of the course, the student will be able to be cognizant of the Bakersfield College requirements for graduation and the process required for transferring to a four-year college or university.				P		
• 3. Upon successful completion of the course, the student will be able to demonstrate an understanding of the educational opportunities and curriculum in Architecture and other environmental design fields.	C					
• 4. Upon successful completion of the course, the student will be able to become familiar and acquainted with qualified leaders in the field.					P	
ARCHB6 - Materials of Construction						
• 1. Upon successful completion of the course, the student will be able to understand the relationship between materials, construction and technology.						P
• 2. Upon successful completion of the course, the student will be able to scrutinize the appearance and compatibility materials in the construction industry.					P	
• 3. Upon successful completion of the course, the student will be able to demonstrate knowledge of the cost and availability of construction materials..					P	
• 4. Upon successful completion of the course, the student will be able to demonstrate the ability to analyze how technology and the techniques utilized influences the selection of construction materials.				P		
ARCHB11 - Design and Perspective Drawing						
• 1. Upon successful completion of the course, the student will be able to demonstrate an understanding of and an ability to use drafting tools and instruments.						P
• 2. Upon successful completion of the course, the student will be able to demonstrate the ability to express three-dimensional objects using orthographic and isometric projection as well as one-point and two-point perspective principles.					P	
• 3. Upon successful completion of the course, the student will be able to demonstrate a working knowledge of the principles of shade and shadow.					P	
• 4. Upon successful completion of the course, the student will be able to demonstrate an understanding of and an ability to use computer software as it relates to the generation of perspective drawings for use in the production of professional quality presentation drawings.					P	
• 5. Upon successful completion of the course, the student will be able to demonstrate the skill to produce professional quality work.				P		
ARCHB12 - Design Drawing and Color						
• 1. Upon successful completion of the course, the student will be able to apply the fundamental visual cues by which people perceive depth in the physical environment and develop the skill to graphically represent them to create the illusion of depth on a two dimensional surface.						P
• 2. Upon successful completion of the course, the student will be able to apply the various principles and skills in this course as an integral tool to visualize, analyze and communicate ideas.					P	
• 3. Upon successful completion of the course, the student will be able to apply the principles and skills of freehand drawing as an integral tool of concept development and communication.					P	
• 4. Upon successful completion of the course, the student will be able to apply a working knowledge of the principles of color theory and their application to graphic presentation.				P		
ARCHB16 - Digital Tools for Graphics Communication						
• Upon completion the student will be able to:1. Manipulate a variety of presentation software and obtain the ability to distinguish the best application for each; to contribute to a higher level of design presentation formats.					P	
• 2. Use modern technology such as a scanner, a printer, a computer and the network to create exceptional graphic presentations.					P	
• 3. Manipulate and enhance images by importing and exporting them in and out of graphic software for professional prints and presentations.					P	
• 4. Experiment and quickly determine if spatial design solutions will produce genuine useable designs.						P
• 5. Create sophisticated design systems that will aid in conveying a spatial thought or develop concrete physical structures.				P		

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ARCHB21 - Architectural Design Fundamentals I						
• 1. Upon successful completion of the course, the student will be able to demonstrate an awareness of two and three-dimensional design composition, space and spatial sequence and the ability to be critical of the appropriate use of these design elements.					P	
• 2. Upon successful completion of the course, the student will be able to recognize a wide range of creative problem solving processes and methods.					P	
• 3. Upon successful completion of the course, the student will be able to identify, analyze and employ the fundamental principles and elements of design and composition.					P	
• 4. Upon successful completion of the course, the student will be able to reconstruct the design process of problem analysis and synthesis by transferring this knowledge to new situations or problems.				P		
• 5. Upon successful completion of the course, the student will be able to define a value and relevance or communication theory to design through graphic presentation and physical models.				P		
• 6. Upon successful completion of the course, the student will be able to understand the importance of and employ the discipline of craftsmanship and basic joinery as an extension of design.					P	
ARCHB22 - Architectural Design Fundamentals II						
• 1. Upon successful completion of the course, the student will be able to demonstrate an awareness of problems in the built environment and the fundamental understanding of a systematic approach to problem solving.					P	
• 2. Upon successful completion of the course, the student will be able to demonstrate the ability to verbally and graphically communicate potential solutions to design problems.					P	
• 3. Upon successful completion of the course, the student will be able to employ previously abstract basic design principles into rational, concrete methods and forms that relate directly to the built environment.					P	
• 4. Upon successful completion of the course, the student will be to integrate previously gained knowledge into increasingly complex solutions.				P		
ARCHB30 - Residential Building Information Modeling						
• 1. Upon successful completion of the course, the student will be able to know how to use Building Information Modeling software as a design tool and utilize the software to develop a full set of working drawings to be used for construction.					P	
• 2. Upon successful completion of the course, the student will be able to apply methods and techniques used in developing architectural working drawings, understanding architectural drafting communication methods.					P	
• 3. Upon successful completion of the course, the student will be able to develop a complete set of working drawings including construction and architectural details for wood frame structures.					P	
• 4. Upon successful completion of the course, the student will be able to demonstrate a basic understanding of city or county zoning ordinances and the CA Building Code as well as a basic understanding of state of CA mandatory energy measures.				P		
• 5. Upon successful completion of the course, the student will be able to demonstrate a have knowledge of how a building is put together by drawing necessary construction details, sections and views that communicate the building process to people in the trades.						P
ARCHB33 - Architectural Computer Practice						
• 1. Upon successful completion of the course, the student will be able to demonstrate the methods and techniques used in developing architectural design development drawings and construction documents.					P	
• 2. Upon successful completion of the course, the student will be able to understand and use the Building Information Modeling software in the design process, from the design development phase to the construction phase, and develop construction documents for a light commercial structure.					P	
• 3. Upon successful completion of the course, the student will be able to demonstrate an understanding of architectural conventions and symbols and be able to organize this material onto the set of documents.					P	
• 4. Upon successful completion of the course, the student will be able to display an understanding of city or county ordinances and its requirements and limitations upon the construction of buildings.						P
• 5. Upon successful completion of the course, the student will be able to demonstrate an understanding of the CA Building Code, the scope, requirements and impact on the design and construction process.				P		

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ARCHB48WE - Occupational Work Experience Education/Internship						
• Upon completion the student will be able to: Articulate the specific work experience objectives in architecture as described by employer and identify the various skills, knowledge and attitudes necessary to the accomplishment of those objectives.					P	
• Upon completion the student will be able to: Demonstrate the acquisition of the various skills, knowledge and attitudes necessary to the completion of the work experience objectives in Architecture and the ability to effectively meet employer's job expectations.					P	
• Upon completion the student will be able to: Identify and analyze the application of acquired skills, knowledge and attitudes to career opportunities in architecture.				P		
ARCHB55 - Residential Building Codes						
• 1. Upon successful completion of the course, the student will be able to demonstrate an understanding of the contents within the California Building Code.						P
• 2. Upon successful completion of the course, the student will be able to demonstrate the effective application of the significant residential code requirements.					P	
• 3. Upon successful completion of the course, the student will be able to demonstrate the ability to research the code for the purpose of answering questions of code compliance.					P	
ARCHB56 - Commercial Codes						
• Upon completion the student will be able to: Demonstrate knowledge and application of the contents of the California Building Code.			C			P
• Demonstrate the effective application of the significant commercial code requirements.			C		P	
• Demonstrate the ability to research the code for the purpose of answering questions of code compliance.			C		P	