No.	SECTION	INSTRUCTIONAL STRATEGY				
		Direct	**Indirect**	**Independent Study**	**Interactive Instruction**	**Remarks**
1.0	**ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION**	Lecture series complete with written material handouts. Slide presentation of building types illustrated from handout materials.	Audio visual presentations related to construction history ("A History of Architecture", Spiro Kostof, PBS Television). Audio visual presentations/films related to culture and civilizations.	Student research into historic styles, civilizations and cultural periods.	Guided tours of local architecture. Art work relative to detail production. Scale model construction of historic structures.	
2.0	**THE SCIENCE OF BUILDINGS**	Lecture series with written material handouts Slide presentation showing building science elements	Lectures from visiting professionals Audio visual presentations on structures and design	Student research on science applications relative to structures Concept study on architectural styles related to expression of structure	Modeling testing on elements discussed (wind tunnels, expansion testing, failure testing) Site tours of building systems Kinesthetic applications of modeled systems	
3.0	**ART AND ARCHITECTURAL DESIGN**	Lecture series with written material handouts Slide presentation showing stages of artistic expression through design Presentation of tools used to produce artistic imagery	Lectures from visiting professionals Audio visual presentations on art inclusion in construction	Student research on artists and works relative to specific periods Student completion of art folder and sketchbooks	Art production techniques, graphic reproductions, modeling and sculpture Site tours of art installations within building structures	
4.0	**SOCIOLOGY AND ARCHITECTURE**	Lecture series with written material handouts. Slide/visual presentation of specific instances and observations towards societal standards.	Guidance into specific experiences relative to the initiatives of the section.	Student research on situational instances. Student observations and reporting on specific experiences.	Field trips and excursions to locations of observation. Role playing opportunities relative to societal and behavioral constructs.	
5.0	**GEOGRAPHY**	Lecture series with written material handouts. Slide/visual presentation of site types, influences, and solutions.	Lectures by visiting professionals. Field trips to geographic locations.	Student research on siting locations. Student study on natural forces related to site design.	Lab studies of soil types, consistencies, and reactions. Lab studies on influence of natural forces (wind tunnel and rain-screen testing).	
6.0	**MATHEMATICS**	Lecture series with written material hand-outs. Visual presentation of geometric analysis and mathematical derivations.	Textbook reading and assigned problems. Study of mathematic formulas and applications.	Student work on homework assignments. Geometric analysis of completed or proposed works.	Demonstration and resolution of geometric principles. Demonstration of proportional relationships.	
7.0	**DESIGN ELEMENTS**	Lecture series with written material hand-outs. Slide presentation showing design examples.	Lectures from visiting professionals. Audio-visual presentations on design examples.	Student research on design elements and principles. Student completion of design folder and illustrations.	Design techniques, block studies. Materials composition and external affects review.	

No.	SECTION	Student Activities				
		Oral	**Visual**	**Kinesthetic**	**Written**	**Remarks**
1.0	**ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION**	Class presentations on research papers. Open discussion on stylistic changes, influences and subjective impressions.	Graphic depictions of architectural details. Plan and site drawing reproductions of historic structures. Model building of historic structures including the surrounding area.	Student participation in local site tours.	Research papers on historic structures including the context of the design: time period, major events, affect of influences on the building.	
2.0	**THE SCIENCE OF BUILDINGS**	Presentation on researched systems Class discussion regarding building sciences	Model study of building systems Graphic representation of acquired science knowledge	Participation in modeling testing (loading and force studies)	Report preparation on model studies and affects	
3.0	**ART AND ARCHITECTURAL DESIGN**	Presentation on researched systems Class discussion regarding art history related to architecture	Study of individual art works Review of art integration into the building context	Production of artistic elements (sketching, storyboards, renderings)	Report preparation on art studies relative to design stages	
4.0	**SOCIOLOGY AND ARCHITECTURE**	Presentation on observations and experiences Class discussion relative to society and historical changes in behaviors.	Graphic reproductions on situational experiences. Illustration of personal site interpretations.	Interaction in role playing activities Individual experiences in assigned experimental tasks relative to behavioral aspects of society.	Analysis (graphic and written) on social constructs, behavioral influences and personal experiences relative to architectural design solutions.	
5.0	**GEOGRAPHY**	Presentation on geographical studies. Presentation on researched contextual solutions. Class discussion on geographical influences.	Site study designs and illustrations. Graphics related to context and topography.	Lab work relative to land materials. Field tours and site trips.	Report preparation on site studies and existing geographical analyses.	
6.0	**MATHEMATICS**	Presentation on mathematic influences. Discussion on proportion and geometry in architectural design.	Graphic representation of geometric and proportional analysis.	Activities involving measurement tools to determine area, volume and quantity. Proportional model making including existing and proposed solutions.	Mathematical problem solving worksheets. Report preparation on geometric and proportional analysis.	
7.0	**DESIGN ELEMENTS**	Presentation on design studies. Class discussion related to design effects and environment.	Graphic and physical production Photographic and contextual studies.	Production of graphic and block studies.	Report preparation/summary of design studies.	

No.	SECTION	ASSESSMENT METHOD			
		Pencil/Paper	**Performance**	**Personal**	**Remarks**
1.0	**ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION**	Written Testing: test categories may include historic periods, major works completed, relationships of time frame to structures (join the building to its year or style), and contextual influences on design. Research papers based on learnings.	Participation in class discussions. Participation in group assignments relative to visual student activities. Participation in tour assignments and information gathering.	Awareness of the physical environment. Understanding of how cultural forces shape the built environment.	
2.0	**THE SCIENCE OF BUILDINGS**	Written testing: modeling, definitions, condition assessments Research submission	Participation in class discussion Participation in group modeling assignment	Understanding of building sciences Awareness of man-made and natural forces and their impact	
3.0	**ART AND ARCHITECTURAL DESIGN**	Written testing: definitions, period styles, overall impact Research submission Submission of art folder and sketchbooks	Participation in class discussion Participation in art production and placement	Understanding of art and its use in generating design solutions Awareness of influence provided by art through the design process	
4.0	**SOCIOLOGY AND ARCHITECTURE**	Graphic submission of experiential research. Report submission of influence of society and behavioral activities relative to various time and place studies.	Participation in class discussion. Participation in interactive activities. Participation in individual research efforts.	Observation in student interaction. Understanding of societal requirements, barriers and differences between societies.	
5.0	**GEOGRAPHY**	Written testing – natural forces, soil types. Research submissions. Graphic submissions on contextual studies.	Participation in class discussion. Participation in site tours. Group project interaction.	Greater awareness of environment and influences of natural forces on design. Personal awareness of scope of environment within urban and rural concepts.	
6.0	**MATHEMATICS**	Written testing on mathematical principles. Report submission on geometric and proportional analysis. Graphic submission in design analysis.	Participation in class activities. Presentation assessment relative to report and analysis studies. Completion of assigned tasks.	Understanding of mathematical applications. Enhanced knowledge base relative to geometric concepts. Increased understanding of proportional relationships.	
7.0	**DESIGN ELEMENTS**	Written testing on elements, principles and definitions. Graphic submission in design analysis.	Participation in class activities. Presentation assessment relative to report and analysis studies. Participation on group and assigned activities.	Awareness of design elements and principles relative to environment. Greater understanding of the built environment.	

No.	SECTION	COMMON ESSENTIAL LEARNINGS					
		Communication	**Creative/Critical Thinking**	**Independent Learning**	**Numeracy**	**Technology**	**Personal/Social Values**
1.0	**ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION**	Verbal communication related to studies. Written communication relative to submissions and research.	Understanding of cultural and social forces through history and how these forces shaped the built environment.	Research and written submissions relative to the course content.	Understanding of time frames, historic time periods and their duration.	Basic understanding of structural concepts related to building construction. Knowledge on technological advances and affects on the built environment.	Basic understanding of societal structure and how the knowledge base of each time period affected the type of buildings constructed. Introduction into the growth, changes and demise of power bases throughout history, along with their impact on society. Relative to understanding current governments and power agencies and their potential impact on future development and construction.
2.0	**THE SCIENCE OF BUILDINGS**	New terminology and definitions Verbal and written skill enhancement	Understanding of forces that affect man-made environment	Research and written submission relative to course content	Understanding of load conditions, failure points and calculated structures	Basic understanding of structural concepts related to buildings Understanding of affect of natural forces influencing structures	Enhanced knowledge of relationship between engineering and architecture Greater understanding of natural forces within constructed environment
3.0	**ART AND ARCHITECTURAL DESIGN**	New terminology and definitions Enhancement of non-verbal communication skills through artistic compositions to convey an idea	Understanding the nature of art and architecture Understanding relative to production of an aesthetic building environment.	Research and written submission relative to course content	Proportional studies on artistic rendering techniques	Basic understanding of technical production requirements for artistic image generation	Enhanced knowledge of relationship between art and development of architectural design Understanding of artistic forces influencing architectural development
4.0	**SOCIOLOGY AND ARCHITECTURE**	Enhancement of non-verbal communicative skills through observation.	Understanding the nature of societal structure. Understanding the rationale behind architectural design principles and the environmental resolution.	Independent research (text and on-site) relative to human study.	Study of group philosophy.	Reading of built form relative to construction in time and place (availability within society regarding construction techniques.)	Enhanced knowledge of society (culture & sub-cultural definitions). Greater understanding of personal space. Greater understanding of behavioral attributes relative to local society.
5.0	**GEOGRAPHY**	New terminology and definitions. Communication techniques relative to environmental influences.	Understanding the environment as a technical element as well as a theoretical influence on design. Ability to analyze environmental factors relative to potential design solutions.	Research and written analyses. Independent study of established applications.	Site surveying technology, including application of mathematics for topography analysis. Mathematical analysis of solar and wind influences on design solutions.	Understanding of soil types, materials, and methods of technical solutions (combined with science of buildings curriculum). Understanding of urban design concepts relative to land efficiency and urban planning.	Group project activities. Response to environmental variables and emotional aspects of site design.
6.0	**MATHEMATICS**	Communication techniques relative to graphic analysis. New terminology and definitions.	Ability to perceive and apply geometric and proportional theory. Understanding of the mathematical complexity within the design process.	Research, assignment, and written submissions. Independent study of established design concepts and applications.	Mathematical calculations for area, volume, quantity and proportion. Application of formula relating to design estimating. Application of geometric principles. Integration of percentages within mathematical calculation; applications of budget variances and the influences of costs (hard and soft) related to design calculations. Creation of spreadsheets to provide realistic analysis of budgets and design area breakdown.	Understanding of budget estimates. Understanding of development costs and influences on design solutions. Understanding of material types, costs, and impact on design solution. Understanding of long-term effects relative to design decisions.	Group project activities. Understanding of group participation relative to design solutions in a construction environment.
7.0	**DESIGN ELEMENTS**	New terminology and definitions Enhancement of non-verbal communication skills.	Understanding of essential design components Understanding of analysis and assessment of design solutions.	Research, graphic assignment, community studies. Independent study of established design concepts and applications.	Mathematical applications of design elements and relationships (scale and proportion). Application of geometric principles.	Understanding of composition elements, materials and design terminology (i.e.: proximity, connection, context)	Enhanced knowledge base relative to the built environment. Awareness of environment and context relative to design solutions. Understanding of cultural influences relative to architectural design.

No.	SECTION	ENVIRONMENT					
		Classroom Climate	Physical Setting	Flexible Student Groupings	Extensions beyond classroom	Community Experiences	Remarks
1.0	ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION	Open classroom layout Visual access for lecturer or audio/visual presentations.	Lecture theatre/classroom seating for audio/visual. Display area for illustrations and artifacts. Flexible layout to allow modification depending on activity.	Required for group projects related to construction of models and details. Adjustable settings required for differentiation of work project areas.	Resource research. Individual building study within the community.	Tours of local community focusing on architectural styles. Potential workshop involving historic structures and rehabilitation efforts. Exposure to local community groups working towards historic preservation and restoration.	
2.0	THE SCIENCE OF BUILDINGS	Visual access for lecture and presentations Open area for movement during modeling stage	Modeling area for natural forces study Seating area for study and research Testing area for viewing and participation in modeling	Required for modeling tasks and testing Combination lecture/task format for smaller group task efforts	Resource based research Building studies on site (Construction stage or finished)	Study of projects in progress Study of existing building performance Monitor study of existing building to be carried out during section term (Study may include student's homes as research models)	
3.0	ART AND ARCHITECTURAL DESIGN	Visual access for lecture and presentations Open area for movement during modeling stage Natural lighting/Task lighting for art studies	Modeling area for sketchbook studies Seating area for sketching Draughting tables, portable easels for drawing	Required for storyboard creation and assembly Varied sizes for student studies on fixed elements	External sketch trips (around or outside building area) Resource based research on historic art structures	Community sketch trips Study of art studios and production facilities in other institutions Participation in community art events and displays	
4.0	SOCIOLOGY AND ARCHITECTURE	Visual accessibility for lecture and presentations.	Open area, flexible for varied settings. Public space access for observation and activity.	Required for role playing. Used in behavioral example situations.	Building experiences through observation and participation in social experiences. Visual observations within classroom and community settings.	Community observational studies. Site review of behavioral situations.	
5.0	GEOGRAPHY	Visual access for lecture and presentation. Open area for lab demonstrations and student activities.	Classroom setting / lecture style for direct instruction. Lab setting for student interaction during modeling and testing stages. Exterior land forms for interactive instruction.	Student groupings for research assignments into land forms and contextual solutions. Student groupings for lab research and testing activities.	Exterior analysis of natural settings and forces acting in and around building solutions. Contextual design studies of existing developments.	Site trips to developed areas to review and analyze solutions. Site trips to under-developed or natural landscape area to analyze forces and materials in situ.	
6.0	MATHEMATICS	Visual access for lecture and presentation. Open area for graphic analysis.	Classroom/lecture style setting. Lab setting for graphic production. Technology zone for computer access.	Student group projects for proportion and geometric study. Group interaction for mathematical analysis and role playing (site conditions).	Outside analysis of existing buildings: photography and measurement. Written Assignments relative to personal residential environments. Site tours through existing facilities.	Site trips to developed areas for analysis. Interaction with building owners to conduct on-site review.	
7.0	DESIGN ELEMENTS	Visual access for lecture and presentation. Natural lighting, display lighting Focal point classroom setting, flexible lab setting.	Student desks / writing stations for lecture areas. Open areas for movement in lab to allow for group activity. Drawing or assembly stations in lab for graphic production.	Large area for group assignments. Research areas for student work projects.	External site trips for community study. Exterior tours around building area for local environment study.	Site trips for community study. Community analysis for graphic production studies.	

No.	SECTION	MATERIALS / RESOURCES REQUIRED		
		In-room Supplies	External Supplies	Remarks
1.0	ARCHITECTURAL HISTORY OF WESTERN CIVILIZATION	Audio/visual resources. Visual supplies for production of graphics and models. Research stations for independent and group work.	Access to community services (tours and relevant groups)	
2.0	THE SCIENCE OF BUILDINGS	Audio visual resources Supplies for modeling studies (materials, weights and balances) Research stations for independent work	Access to community professionals and buildings	
3.0	ART AND ARCHITECTURAL DESIGN	Audio visual resources Graphic supplies for sketching, storyboards, colour productions Drawing stations for independent work	Access to community programs and selected buildings	
4.0	SOCIOLOGY AND ARCHITECTURE	Audio-visual resources. Physical materials for behavioral examples.	Access to building public space for observation and experience. Access to community areas for experiential learning.	
5.0	GEOGRAPHY	Audio-visual resources. Lab equipment for testing (wind, moisture). Soil samples for testing. Research stations for independent and group work	Access to site areas, both developed and pristine, for student study. Access to land form variations within the local environment (valleys, plains, lakes).	
6.0	MATHEMATICS	audio-visual resources graphic production materials computer stations measurement tools photograph tools	building photographs research materials access to existing site locations	
7.0	DESIGN ELEMENTS	Audio-visual resources. Graphic production materials. Writing / display surfaces. Production stations. Photography tools.	Access to community environments. Photography equipment.	