



ARC 1010 – Classical Architecture Workshop

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

Semester: Fall

Year: 2025

Course Prefix: ARC 1010

Course and Section #: 002

Course Title: Classical Architecture Workshop

Credits: 3

Course Description

Provides an understanding of the fundamental principles and language of architecture. Instructs in the design principles that inform classical architecture which are found in the order, proportion, archetypal geometry, and patterns found in nature and the cosmos. Creates a solid foundation for learning and applying architecture's vocabulary and syntax to compose poetic and meaningful buildings.

Course Attributes

This course has the following attributes:

- ☐ General Education Requirements
- ☐ Global/Intercultural Graduation Requirements
- ☐ Writing Enriched Graduation Requirements
- ☒ Discipline Core Requirements in Program
- ☐ Elective Core Requirements in Program
- ☐ Open Elective

Other: *Click here to enter text.*

Instructor Information

Instructor Name: Ben Felix

Student Learning Outcomes

By the end of the course, students will be able to:

- Apply ordering systems, such as archetypal geometry, proportion, and patterns, to design problems.
 - Develop literacy with the classical language of architecture through examination of the parts of the classical orders and the tectonic design elements of architectural composition.
 - Demonstrate how to incorporate historic architectural precedents, measured drawings, and design principles in new design projects within a wide spectrum of scales.
 - Verbally and visually explain concepts of architectural design.
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Course Materials and Texts

The design workshop requires a few drafting and model making materials that students can continue to use throughout their architectural education beyond this course. Supplies can be purchased locally at the campus bookstore, Michaels, Hobby Lobby, Artist Corner, Blick Art Materials, etc.

If you plan on continuing in the B.Arch program, it is highly recommended to use a drafting table with a parallel bar or T-square in this class. The minimum size for the drafting table is 23"x31" to accommodate the typical 22"x30" sheets of watercolor paper we use for final drawings in future studios. The drafting table will be brought to and from the classroom each day so it should be portable (see example below).



Required Supplies and Materials

- Sketchbook, spiral bound, new 8.5"x11"
- 12" Rolling ruler
- 12" or 18" roll of tracing paper
- HB or 2H pencils
- White Stadtler-Mars eraser or equivalent
- Kneaded eraser
- Compass
- Drafting tape or drafting dots
- Triangular architect's scale and engineering scale in inches
- 45/45/90 triangle and 30/60/90 triangles
- Circle template
- Eraser shield
- Waterproof drawing pens of varying pen tip thickness, including 0.005, 0.01, 0.03, 0.05 (Sakura Pigma Micron or equivalent)
- Portfolio carrying case to protect large format drawings (12"x18" min)
- Tacklebox, artbox, or bag to store supplies

- Watercolor Supplies (do not buy these until later in the semester after instructor has gone over them – Typically Week 8)
- 12"x18" watercolor paper (or larger)
- Watercolor brushes – min. two different sized brushes: #2, #5, #8, #12 or similar
- Watercolor jars or lidded cups
- Clean rag to wipe your brush dry
- Natural sponge for emergencies and to clean your paper
- Watercolor tubes – minimum: Lamp Black, Ultramarine Blue, and Burnt Umber. Other optional colors: Yellow Ochre, Sap Green, Cerulean Blue, Sepia, Payne's Grey

Required Digital Tools and Software

- Laptop or desktop computer capable of submitting assignments.
- Thumbdrive for digital portfolio submissions
- Scanner to scan color PDFs of projects and homework
- Camera (high quality - mobile phone, digital)

Required Texts

- Institute of Classical Architecture & Art. *A Classical Primer*, 2023. (provided in class)
- Ware, William R. *The American Vignola: A Guide to the Making of Classical Architecture*. New York: Dover, 1994. Older edition PDFs available free online:
 - (Book 1) <https://archive.org/details/cu31924091026504/page/n1>
 - (Book 2) <https://archive.org/details/americanvignola00vigngoog/page/n5>

NOTE: Selected chapter readings/examples from the texts below (and/or others) will be provided by the instructor, but the student may desire to purchase their own copy of these texts for future reference.

- Adam, Robert. *Classical Architecture: A Comprehensive Handbook to the Tradition of Classical Style*. New York: Harry N. Abrams, 1991.
- Schneider, Michael S. *A Beginner's Guide to Constructing the Universe: The Mathematical Archetypes of Nature, Art, and Science*. New York: HarperCollins, 1994.

Other Recommended Reference Texts

- Gabriel, Jean-François. *Classical Architecture for the Twenty-First Century: An Introduction to Design*. New York: W.W. Norton & Company, 2004.
- Alberti, Leon Battista. *The Ten Books of Architecture: The 1755 Leoni Edition*. New York: Dover, 1986.*
- Ching, Frank. *Architecture: Form, Space, & Order*. 3rd ed. Hoboken, NJ: John Wiley & Sons, 2007.*
- Chitham, Robert. *The Classical Orders of Architecture*. 2nd ed. Burlington, MA: Architectural Press, 2005.
- Clark, Roger H., and Michael Pause. *Precedents in Architecture: Analytic Diagrams, Formative Ideas, and Partis*. 3rd ed. Hoboken, NJ: John Wiley & Sons, 2005.
- Curtis, Nathaniel Cortlandt. *The Secrets of Architectural Composition*. Mineola, NY: Dover, 2011.
- Cusato, Marianne, and Ben Pentreath. *Get Your House Right: Architectural Elements to Use & Avoid*. New York: Sterling, 2011.
- Glazier, Richard. *A Manual of Historic Ornament: Treating Upon the Evolution, Tradition, and Development of Architecture & the Applied Arts*. New York: Chas. Scribners Sons, 1914. PDF available at:
https://www.google.com/books/edition/A_manual_of_historic_ornament_treating_u/CQBZAAAAYAAJ?hl=en&gbpv=0
- Gromort, Georges. *The Elements of Classical Architecture*. 1st ed, The Classical America Series in Art and Architecture. New York: W.W. Norton, 2001.
- Harbeson, John F. *The Study of Architectural Design: With Special Reference to the Program of the Beaux-Arts Institute of Design*. New York: W.W. Norton, 2008.
- Hersey, George L. *The Lost Meaning of Classical Architecture: Speculations on Ornament from Vitruvius to Venturi*. Cambridge, Mass.: MIT Press, 1988.

- Jones, Owen. *The Grammar of Ornament*. London: Bernard Quaritch, 1868. PDF available at: https://www.google.com/books/edition/The_Grammar_of_Ornament/6xI8AQAAAMAAJ?hl=en&gbpv=0
 - Martineau, John, ed. *Quadrivium: The Four Classical Liberal Arts of Number, Geometry, Music, & Cosmology*. New York: Bloomsbury USA, 2010.
 - Mouzon, Stephen A., and Susan M. Henderson. *Traditional Construction Patterns: Design and Detail Rules of Thumb*. New York: McGraw-Hill, 2004.
 - Palladio, Andrea. *The Four Books of Architecture*. New York: Dover, 1965.*
 - Semes, Steven W. *The Architecture of the Classical Interior*. New York: W.W. Norton, 2004.
 - Semes, Steven W. *The Future of the Past: A Conservation Ethic for Architecture, Urbanism, and Historic Preservation*. New York: W.W. Norton & Company, 2009.
 - Stratton, Arthur. *Form and Design in Classic Architecture*. Mineola, NY: Dover, 2012.
 - Summerson, John. *The Classical Language of Architecture*. Cambridge, MA: MIT Press, 1963.
 - van Pelt, Robert Jan, and Carroll William Westfall. *Architectural Principles in the Age of Historicism*. New Haven: Yale University Press, 1991.
 - Vitruvius Pollio, Marcus. *Vitruvius: The Ten Books on Architecture*. Translated by Morris H. Morgan. New York: Dover, 1960.*
 - Wittkower, Rudolf. *Architectural Principles in the Age of Humanism*. London: Academy Editions, 1998.
 - Students may also want to reference other free digital e-books about architectural design at the following links:
 - <https://www.classicist.org/resources/digital-rare-books-archive/>
 - <http://onlinebooks.library.upenn.edu/webbin/book/browse?type=lcsbc&key=Architecture&c=x>
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Course Requirements

Course Assignments, Assessments, and Grading Policy

Classroom Policies

- **COMMUNICATION** – Throughout the semester the instructor may contact students via email and/or Canvas. It is your responsibility to check both Canvas and your UVU email regularly and ensure your inbox is not full. Your instructor will maintain an open door policy if you need additional assistance beyond class hours. You can contact your instructor to make an appointment.
- **ATTENDANCE** – Attendance is critical for success in the class and will be factored into the final course grade. Class will start promptly at the time listed. I will call roll at the beginning of class. **Arriving more than 20 minutes late will be considered an unexcused absence.**
- **ABSENCES** – Attendance and participation points will be lost for every unexcused absence. Examples of excused absences include a death or birth in the family, student illness, and collegiate athletic responsibilities. Appropriate documentation must be provided for an absence to be excused. **If you accumulate three or more unexcused absences, your grade will be reduced a full letter grade. Five or more unexcused absences will result in failing the class.**
- **READINGS** – Assigned course readings are to be completed prior to the date of the lecture that they are assigned in the syllabus.
- **QUIZZES** – Short pop quizzes may be given at the beginning of a lecture and will be based on the prior lecture and readings.

- **ASSIGNMENTS** – Details for each assignment will be handed out (or posted on Canvas) and reviewed together in class. Projects and assignments must be turned in no later than the time specified in the syllabus or on Canvas to receive full credit. You are responsible for meeting all deadlines. **Late assignments may ONLY receive up to half credit.**
- **FIELD TRIPS** – It is the University and Department’s policy that in no case shall a student drive to or from an assigned field trip without proper auto insurance. Students should make every effort to carpool to all field trips since parking may be difficult and limited.
- **STUDIO CULTURE POLICY** – See document “Learning and Teaching Culture Agreement” on Canvas.
- **FOOD AND DRINKS** – Absolutely NO eating or drinking is allowed in the classroom. Too many computers and projects have been ruined due to food and drink related incidents.
- **ONLINE ETTIQUETE** – In case of online classes, please keep your camera on during class but mute your audio unless you have a comment. Silence your cell phones and other electronic devices. During class time cell phones, text messaging, email, and other electronic forms of communication not related to the class are NOT permitted. If you have an urgent call that you absolutely must take, please leave the room to do so.

Assessment

The weight of each of the projects and assignments is subject to minor changes throughout the course depending on circumstances, but will generally be broken down as follows:

GENERAL	20%
Attendance / Participation / In-class assignments	100 pts
Obtain Required Materials	10 pts
Quizzes from Readings / Videos	70 pts
ICAA/UVU Classical Architecture Lecture Series	20 pts
 PROJECT 01: Archetypal Geometry	 15%
Part A – Geometry sketches #1-4	30 pts
Part B – Geometry sketches #5-8	30 pts
Part C – Geometry sketches #9-12	30 pts
Part D – Archetypal Geometry Final Drawing	60 pts
 PROJECT 02: Doric Entry Gate at Ashton Gardens	 24%
Part A – Drawing of Classical Moldings	20 pts
Part B – Drawings of Doric Order	50 pts
Part C – Esquisse (Concept Development)	20 pts
Part D – Refinements (Schematic Design)	50 pts
Part E – Final Presentation (Design Development)	100 pts
 PROJECT 03: Ionic Order	 11%
Part A – Drawings of Ionic Order	50 pts
Part B – Precedent Analysis	30 pts
Part C – Precedent Analysis – Frieze Ornament	30 pts
 PROJECT 04: Lakeside Pavilion	 30%
Part A – Drawings of Corinthian Order	50 pts
Part B – Esquisse (Concept Development)	20 pts
Part C.1 – Refinements (Schematic Design)	30 pts
Part C.2 – Final Drawings (Design Development)	50 pts
Part D.1 – Analytique Concepts (Sketches)	20 pts
Part D.2 – Analytique Rough Draft (Black & White)	30 pts
Part D.3 – Analytique Final Rendering (Shade & Shadow)	100 pts
TOTAL	100%

Grading Scale

A	95% to 100%	C	73% to 76%
A-	90% to 94%	C-	70% to 72%
B+	87% to 89%	D+	67% to 69%
B	83% to 86%	D	60% to 66%
B-	80% to 82%	D-	55% to 59%
C+	77% to 79%	E	00% to 54%

Grades and Credit

Your grade for this class will become part of your permanent college transcript and will affect your GPA. A low grade in this course can affect progress within the B.Arch program and scholarship eligibility. Grades are determined by instructors, based upon measures determined by the instructor and department and may include: evaluation of responses, written exercises and examinations, performance exercises and examinations, classroom/laboratory contributions, mastery of pertinent skills, etc. Letter grading is defined as follows:

- “A” is an exceptional grade indicating superior achievement.
- “B” is a grade indicating commendable work.
- “C” indicates satisfactory work and is considered an average grade.
- “D” indicates substandard progress and insufficient evidence of the ability to succeed in sequential courses.
- “E” (failing) indicates inadequate mastery of pertinent skills or repeated absences from class.
- “UW” indicates an unofficial withdrawal from the class.

Required or Recommended Reading Assignments

- *Martineau, p.11-19*
- *Supplementary reading Schneider, p.1-95*
- *Martineau, p.20-27; Supplementary reading Schneider, p.96-300*
- *Martineau, p.28-35; Supplementary reading Schneider, p.301-346*
- *Ware, p.15-18, Plates V, VI, VII, XVI, XVII*
- *Ware, p.19-22, 30-31, Plates VIII, IX, XVI, XVII*

General Description of the Subject Matter of Each Lecture or Discussion

- *Sacred Geometry: Exploring its Archetypal Language and Origins*
 - Exploration of sacred geometry and how the classical principles of proportion, symmetry, etc. found in nature can inform architectural design.
- *Introduction to Classical Architecture and Moldings*
 - The classical orders and moldings are introduced.
- *Designing with the Orders: The Elements of Architecture Part I*
 - The process of architectural design using classical principles.
- *Precedent and Measured Drawing*
 - How to use precedent in design and the process of completing measured drawings.
- *Ornament*
 - The importance of ornament and the process of designing it.
- *Designing with the Orders: The Elements of Architecture Part II*
 - The process of architectural design using classical principles.

Required Course Syllabus Statements

Generative AI

All coursework will be completed by hand. Using generative AI to assist in any assignment is prohibited.

Using Remote Testing Software

☒ This course does not use remote testing software.

□ This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Required University Syllabus Statements

Accommodations/Students with Disabilities

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at accessibilityservices@uvu.edu or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu

DHH is located on the Orem Campus in BA 112.

Academic Integrity

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

Equity and Title IX

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis

protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – TitleIX@uvu.edu – 800 W University Pkwy, Orem, 84058, Suite BA 203.

Religious Accommodation

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at accessibilityservices@uvu.edu. If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.