



## ARC 3120 – Architectural Graphic Communications

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

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**Semester:** Fall

**Course Prefix:** ARC 3120

**Course Title:** Architectural Graphic Communications

**Year:** 2025

**Course and Section #:** 002

**Credits:** 3

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### ***Course Description***

Enables the student to confidently communicate design ideas to others. Includes involvement in producing complex 3D models and renderings of various project types. Combines traditional drawing techniques and contemporary software to complete assignments and projects.

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### ***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.*

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### ***Instructor Information***

**Instructor Name:** Ben Felix

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### ***Student Learning Outcomes***

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

- Develop formal analysis drawings
  - Develop spatial diagrams to describe a building or place
  - Develop architectural vocabulary especially as it relates to classical elements
  - Diagram and employ classical proportions
  - Develop graphic communication techniques
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### ***Course Materials and Texts***

#### **Required Supplies and Materials**

- Sketchbook, spiral bound, new 8.5"x11"
- Portable Parallel Straightedge Board, 30"x42"
- 12" or 18" roll of tracing paper

- HB or 2H mechanical pencils
- White Stadtler-Mars eraser or equivalent
- Kneaded eraser
- Compass
- Drafting tape or drafting dots
- Triangular architect's and engineer's scales in inches
- 45, 30/60 degree triangles
- Circle template
- Eraser shield
- Erasable colored pencils, preferably brown, sepia, red, white
- Waterproof drawing pens of varying pen tip thickness, such as 0.005, 0.01, 0.03, 0.05 (Sakura Pigma Micron or equivalent)
- Push pins
- Scissors, straight, 8"
- Tacklebox or artbox to store supplies
- Sharpie Marker, black, regular and fine point
- Watercolor brushes – min. two different sized brushes: #2, #5, #8, #12 or similar
- Watercolor jars or lidded cups
- Watercolor paper: several small sheets 8.5"x11" and a minimum of one 24"x36" sheet
- Clean rag to wipe your brush dry
- Natural sponge for emergencies and to clean your paper
- Typical watercolor set with dry cakes or liquid (typical primary colors and sepia)

#### **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)

## ***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. I maintain an open door policy if you need additional assistance beyond class hours.
- **ATTENDANCE** – Attendance is required 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.
- **READINGS** – Assigned course readings are to be completed prior to the date of the lecture that they are assigned in the syllabus.
- **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.
- **PORTFOLIO REQUIREMENT** – In accordance with Department requirements for NAAB accreditation, each student will submit a portfolio containing images of all studio project work to the instructor by the dates outlined in the schedule. Students that submit an unacceptable portfolio (or do not submit one at all) will see a penalty reflected in their final grade. This may result in students not continuing onto the next design studio sequence.
- **PHONES, LAPTOPS, ELECTRONICS, ETC** – Please silence your cell phones and other electronic devices. During class time cell phones, text messaging, email, and other electronic forms of communication are NOT permitted. If you have an urgent call that you absolutely must take, please leave the room to do so.
- **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.

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### Required or Recommended Reading Assignments

- Ching, Francis D.K. *Design Drawing*. New York: John Wiley & Sons, 1998. (pp. 88-107, 108-124, 164-170)
- 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. (pp. 36-45, 55-60)
- Gabriel, Jean-Francois. *Classical architecture for the twenty-first century: An Introduction to Design (Classical America Series in Art and Architecture)*. New York: W. W. Norton and Company, 2005. (pp. 76-109)
- Laseau, Paul. *Graphic Thinking for Architects and Designers*. 2<sup>nd</sup> ed. New York: Van Nostrand Reinhold, 1989. (pp. 55-100)

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### General Description of the Subject Matter of Each Lecture or Discussion

- *Introduction to Architectural Graphic Communication*
  - Basics of orthographics and perspective drawings, hand drafting, and other methods of rendering.
- *Sketching Demonstration*
  - Basics of how to lay out and execute a perspective sketch
- *Hand Drafting Demonstration*
  - How to use hand drafting tools to draft a floor plan, elevation, and section drawing.
- *Perspective Demonstration*
  - How to construct accurate 1-point and 2-point perspectives from orthographic drawings.
- *Shade and Shadow*
  - Basics of how to determine and delineate the regions of shade and shadow in an architectural drawing.
- *Monochromatic Watercolor Rendering*
  - How to wash render architectural drawings in monochromatic watercolor.
- *Architectural Symbolic Conventions*
  - How to read construction drawings.
- *Approximating measurements*
  - How to approximate field measurements.

- *Revit Basics*
  - How to use Revit as a supplementary tool for creating hand renderings.
- *Chromatic Watercolor Rendering*
  - How to wash render architectural drawings in chromatic watercolor.
- *Photoshop*
  - The basics of how to use Adobe Photoshop.
- *Indesign*
  - The basics of how to use Adobe Indesign.
- *Portfolio/Resume*
  - How to put together a professional portfolio and resume.
- *3D Printing/Watercolor Printing*
  - How to make a 3D print model and how to set up and print onto watercolor paper.

### **General Description of the Subject Matter of Each Lecture or Discussion**

The weight of each of the projects and assignments will be broken down as follows:

#### ***GENERAL***

Attendance / Participation / Quizzes / Tests 20%

#### ***GRAPHIC COMMUNICATION EXERCISES***

30%

Exercise 1: Analysis / Diagrams

Exercise 2: Hand Drafting

Exercise 3: Shade & Shadows

Exercise 4: Watercolor

Exercise 5: Rendered Perspectives

Exercise 6: Drafted Analytique

Exercise 7: Revit 1

Exercise 8: Revit 2

Exercise 9: Photoshop

Exercise 10: Resume

Exercise 11: Portfolio

#### ***GRAPHIC COMMUNICATION PROJECTS***

Project 1: Measured Drawing Analytique 25%

Project 2: Parallel of the Orders (analog) 25%

**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 mastery.
- “C” indicates satisfactory mastery 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.

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## ***Required Course Syllabus Statements***

### **Generative AI**

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

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### **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.

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## ***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](mailto: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](mailto:DHHservices@uvu.edu)

DHH is located on the Orem Campus in BA 112.

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### **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](#).

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### **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](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

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### **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](mailto: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.