

Arch 313 | ADVANCED VISUALIZATION Winter 2019 | & ANALYSIS

UNIVERSITY OF WATERLOO
SCHOOL OF ARCHITECTURE

David Correa <david.correa@uwaterloo.ca>

Office: 3017 | Office Hours: by appointment

Teaching Assistants:

Alexander Gontarz - agontarz@uwaterloo.ca

Shabaan Khokar - snkhokha@uwaterloo.ca

Lecture Times, Building and Room Number:

Wednesday 10:00 AM -12:50 PM (ARC 1101)

"The body moves through space every day, and in architecture in cities that can be orchestrated. Not in a dictatorial fashion, but in a way of creating options, open-ended sort of personal itineraries within a building. And I see that as akin to cinematography or choreography, where episodic movement, episodic moments, occur in dance and film." Antoine Predock

Course Description:

This course will allow students to gain further skills in visual representation for Architecture. The course aims to provide students with visualization challenges, commonly found in architecture practice, that will require them to investigate and further their own representational style. The dimension of time will be approached as a key representational tool, as both a driver of narrative and as a medium for architectural composition. Key foundational concepts on composition, lighting, photography, cinematography and diagrammatic strategies will be covered in the context of Architectural design.

In aim of supporting ARCH 392 / 3A Studio project, this course will assist in developing visual analysis and design visualizations that may be directly related to the material and project work developed for the studio project.

Course Structure

The course is structured as a series of exercises with increasing complexity that focus on various inter-dependent aspects of architectural representation. The goal is for students to develop their own representation style and toolset while learning foundational principles through applied visual representation; these assignments will be introduced/supported by in-class lectures.

Assignment 1 (a,b)

This is a two-part assignment that looks at the visual, social and psychological dimensions of visual composition.

Assignment 2 (a,b,c)

This is a three-part assignment that challenges students to engage the dimension of time, in several capacities, as an inherent component of architectural representation.

Assignment 3

Working in collaboration with ARCH 392 (3A), this final assignment focuses in the critical use of visualization tools in support of a specific architectural representational objective.

Learning Objectives:

The course will provide opportunities to

1. Critically consider composition, atmosphere and narrative as key drivers of design communication within architectural representation.
2. Introduce students to tools used to plan and conceive visual story telling / visual narrative strategies to inform architectural design
3. Investigate time-based visualization processes including digital and analog motion picture visualization

*"A story should have a beginning,
a middle and an end...
but not necessarily in that order."*-

Jean-Luc Godard

Evaluation:

Each assignment throughout the term will be assessed on the following basis:

- Successful implementation of technical goals as well as meaningful design/architectural insight
- Ambition, clarity and appropriateness of the ideas addressed within the work
- Precision and craft of work developed
- The capacity of the submission to communicate the project's intention in the author's absence.
- Meeting the required submission criteria (upload to learn, file format, naming convention, etc)

Deadlines and extension for ARCH 313 are only possible in cases of illness or incapacity. Requests for such extensions must be made before the project deadline, as soon as is possible, using the request for extension form available from the Undergraduate Student Services Coordinator – Donna Woolcott, accompanied by a medical certificate when necessary, and submitted to the ARCH 313 instructor. Students must complete all assignments, and obtain a passing average in order to receive credit for this course. All assigned parts of the work must be completed. Punctual completion is required. Grade penalties will be applied to late submissions and chronic lateness may result in disciplinary review including refusal of acceptance. Late submissions must be accompanied by formal transmittal indicating reason for lateness. For submissions administered with evening deadlines, penalties would be assessed at 5% up to midnight, and 10% next day and each day afterward. 'Days' begin at midnight each day, and include weekends and holidays.

GRADES

Students must complete all projects and assignments and obtain a passing average in order to receive credit for this course.

> Assignment 1a (A1a):	5 %
> Assignment 1b (A1b):	10%
> Assignment 2 (A2):	30%
> Assignment 3 (A3):	40%
> In-class Participation /pop quizzes:	15%

SCHEDULE:**W1 - 190109 – Lecture 1 - INTRO****Assignment 1a (5%)**

Issued 190109 | Due 150115 @ 6:00 pm on LEARN

**W2 - 190116 – Lecture 2: Visual Composition 1****Assignment 1b (10%)**

Issued 190116 | Due 190129 @ 6:00 pm on LEARN

W3 - 190123 – Lecture 3: Visual Composition 2**W4 - 190130 – Lecture 4: The Dimension of Time****Assignment 2 (30%):**

Issued 190130 |

Due 190212 (a) / 190226 (b) / 190311 (c)

@ 6:00 pm on LEARN

(Joint Review with Studio on 190311 to be confirmed)

**W5 - 190206 – Lecture 5: Cinematography****W6 - 190213 – Lecture 6: Thesis, Antithesis and Synthesis***W7 - 190220 – Reading Week***W8 - 190227 – Desk Crits (A2 support)****W9 - 190306 – Expert Lecture: Turner Fleischer****W10 - 190313 – Expert Lecture: TBA****Assignment 3 (40%): 2D Animation**

Issued 180124 | Due 180208 @ 8:00 am on LEARN

Review 1800208 (2 Week) (*same student groups as studio*)**W11 - 190320 – Expert Lecture: TBA****W12 – 190327 – Desk Crits (A3 support)****W13 – 190403 – Final Lecture****W14 - 190410 – Digital Submission Hand-in Deadline****190412 - ARCH 392 (Integrated FINAL Review)**

(Final Assignment Evaluation)

*Narnia III Storyboard by Trevor Goring_Art 2007*

ARCH 313 - Adv. Visualization & Analysis - Winter Term 2019

Arch 392 - 3A Studio – Winter Term 2019

			Exercise	Title		Grade
Jan	Wk 1					
		7	P1	intro		
		9	A1	Lecture 1 - Intro	Issue A1a	5%
		10	P1	P2 handout		
	Wk 2	14				
		15			A1a Hand in	
		16	A1a	Lecture 2 - Composition 1	Issue A1b	10%
		17	P1	Reviews		
	Wk 3	21		Field Trip		
		23	A2	Lecture 3 - Composition 2		
		24		Lecture		
	Wk 4	28				
		29			A1b Hand in	
		30	A2	Lecture 4 - Time	Issue A2	30%
		31	P2	Pin Up		
	Wk 5	4				
Feb		6		Lecture 5 - Cinematography		
		7	P2	Reviews		
	Wk 6	11		Lecture		
		12			A2a Hand in	
		13		Lecture 6 - Thesis, Antithesis, Synthesis		
		14		Cities Symposium		
	Wk 7	18		Reading week no classes		
		20		Reading week no classes		
		21		Reading week no classes		
	Wk 8	25				
		26			A2b Hand in	
		27		Desck Crits		
		28		Pin Up		
Mar	Wk 9	4		Lecture		
		6		Expert Lecture: Adv. Visualization in Arch. Practice - Turner Fleischer		
		7				
	Wk 10	11		Mid-Review	A2c Hand in (joint submission)	
		13		Expert Lecture: TBA	Issue A3	40%
		14		Lecture		
	Wk 11	18				
		20		Expert Lecture: TBA		
		21		Lecture		
	Wk 12	25		Pin Up		
		27		Desck Crits		
		28				
Apr	Wk 13	1				
		3		Final Lecture		
		4		Pin-up 2		
		5			Last Day of Classes	
	Wk 14	10		392 & 313 Final Hand In	(joint review) to be confirmed	
		12		392 & 313 Final Reviews	(joint review) to be confirmed	

Attendance:

Attendance to all Lectures and Tutorials is required. Students are expected to arrive shortly before 10:00 am. There will be graded in-class participation quizzes.

Laptop, Software and Visualization equipment:

Laptops should be ready for in class exercises. Students are required to have equipment and software tools ready (installed with appropriate license privileges) prior to class.

Digital Submissions:

Students must make and maintain regular backups of their digital files and documentation material. Lost or corrupt files will not be accepted as an excuse for late project submissions. Digital Submissions will be required for all assignments, as individual students or groups, throughout the term. All files must be submitted in readable pdf and mp4 formats to LEARN.

Credits:

Credit all sources for your work. Identify original authors of all visual documents. Footnote text sources. Include full captions for illustrations. Provide a detailed list of credits with each assignment.

Academic Integrity:

In order to maintain a culture of academic integrity, member of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. Refer to Academic Integrity website (<https://uwaterloo.ca/academic-integrity/>) for details.

Grievance:

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70 (<https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-70>) Student Petitions and Grievances, Section 4. When in doubt, please contact the department's administrative assistant who will provide further assistance.

Discipline:

A student is expected to know what constitutes academic integrity to avoid committing an academic offence, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (e.g. plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course instructor, academic advisor, or the undergraduate Associate Dean. For information on categories

of offences and types of penalties, students should refer to Policy 71 (<https://uwaterloo.ca/secretariat/policies-procedures-guidelines/policy-71>) Student Discipline. For typical penalties check Guidelines for the Assessment of Penalties (<https://uwaterloo.ca/secretariat/policies-procedures-guidelines/guidelines/guidelines-assessment-penalties>).

Appeals:

A decision made or penalty imposed under Policy 70 (Student Petitions and Grievances) (other than a petition) or Policy 71 (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals)

www.adm.uwaterloo.ca/infosec/Policies/policy72.htm.

Note for Students with Disabilities:

AccessAbility Services (<http://uwaterloo.ca/disability-services/>), located in the new addition to Needles Hall, Room 1401, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the office at the beginning of each academic term.