

Architecture 143

Winter 2020

School of Architecture

S Y L L A B U S

Architecture 143

Cultural History II

The Classical World and the Foundations of Europe.

Professor:	Robert Jan van Pelt	Office: 2022
Teaching Assistants:	Kelsey Malott	Office: 2019
	James Callan Wilson-Delafield	Office: 2002

Place and Time:	Tuesday:	Main Lecture Theatre, 2:00 – 5:00 pm
	Wednesday:	Main Lecture Theatre, 2:00 – 5:00 pm

**Books to be purchased:**

Richard Ingersoll, *World Architecture*, 2<sup>nd</sup> edition (Oxford). ISBN: 978 0199016303.

This is a custom edition of the book specially made for Arch 143. It only includes the material of the trade edition of the book that will be taught in Arch 143 (chapter 1 – 8), and can only be obtained through the U of W bookshop.

*Myths from Mesopotamia: Creation, The Flood, Gilgamesh, and Others*, trans. Stephanie Dalley ed. (Oxford Paperbacks). ISBN: 978 0199538362

*The Tale of Sinuhe*, R.B. Parkinson trans. (Oxford Paperbacks). ISBN: 978 0199555268

*The Bible*, David Norton ed. (Penguin). ISBN: 978-0141441511

Homer, *The Odyssey*, Robert Fagles trans (Penguin). ISBN: 978-0140268867

Aeschylus, *The Complete Aeschylus, vol. I: Oresteia*, Peter Burian and Alan Shapiro trans. (Oxford). ISBN: 978-0195135923

Plato, *The Last Days of Socrates*, Christopher Rowe trans. (Penguin). ISBN: 978-0140455496

Confucius, *The First Ten Books*, D.C. Lau trans. (Penguin). ISBN: 978-0141023809

Lao Tzu, *Tao Te Ching* (Penguin). ISBN: 978-0141043685

Virgil, *Aeneid*, trans. Robert Fagles (Penguin). ISBN: 978-0140455380

Cicero, *On Government* (Penguin). ISBN: 978-0140445954

Saint Augustine, *Confessions of a Sinner* (Penguin) ISBN: 978-0141018836

St. Benedict, *The Rule of Benedict* (Penguin). ISBN: 978-024125172

Gregory of Tours, *History of the Franks*, trans. Lewis Thorpe (Penguin). ISBN: 978-0140442953

Murasaki Shikibu, *The Tale of Genji* (abridged), trans. Royall Tyler (Penguin). ISBN: 978-014303949-5

**Schedule:***Week I*

The Mythic Age (1): The Fertile Crescent and the Beginnings of Civilization.

Readings: Ingersoll, *World Architecture*, 1.1, 1.2, 1.3, 2.1; *Myths from Mesopotamia, Creation, The Flood, Gilgamesh, and Others*, “The Epic of Gilgamesh, standard version” (pp. 39-135) and “The Epic of Creation” (pp. 228-277).

January 7 am The Origins of Permanent Human Settlement

January 7 pm The First Cities

January 8 Gilgamesh and the Making of Man

*Week II*

The Mythic Age (2): Egypt.

Readings: Ingersoll, *World Architecture*, 2.2, 3.2; *The Tale of Sinuhe and Other Ancient Egyptian Poems*, “The Tale of Sinuhe” and “The Tale of the Eloquent Peasant” (pp. 21-88). “The Dialogue of a Man and his Soul” (pp. 151-165), “The Teaching of King Merikare” and “The ‘Loyalist’ Teaching” (pp. 212-245).

January 14 On the Origins of Architecture

January 15 Order Here, Chaos There

*Week III*

The Axial Age (1): Israel, Juda, Babylonia and Persia

Readings: Ingersoll, *World Architecture*, 3.3, 4.1; *The Bible*, Genesis 1-4, 6-9, 12-23, 37-46; Exodus 1-12, 19-20, 25-27; Deuteronomy 12; 1 Kings 5-8; 2 Kings 18, 22-24; 2 Chronicles 29-32.

January 21 The Political History of the Hebrew Bible.

January 22 The Prophets.

*Week IV*

Test

January 28 Class slot will be taken by Arch 173.

January 29 **Test 1: Material read and discussed in Weeks 1 to 3. (20% of term mark)**

- Week V*                    The Axial Age (2): Greece, part 1
- Readings:        Ingersoll, *World Architecture*, 3.1; Homer, *The Odyssey*; Aeschylus, *The Oresteia*.
- February 4        Winning, World-wise, Self-possessed  
February 5        The Political Animal
- Week VI*                    The Axial Age (3): Greece, part 2
- Reading:         Ingersoll, *World Architecture*, 4.2; Plato, *The Last Days of Socrates*.
- February 11      Socrates: A Paradigmatic Individual  
February 12      Man as God.
- Week VII*                  Reading Week
- Week VIII*                The Axial Age (4): India and China
- Readings:        Ingersoll, *World Architecture*, 2,3, 4.3, 5.2, 7.2 (China); Confucius, *The First Ten Books*; Lao Tzu, *Tao Te Ching*
- February 25      The Buddha and Confucius: Two Paradigmatic Individuals  
February 26      The Authority of the Past and the Paradox of Eternity
- Week IX*                  The Post-Axial Age (1): Rome, part 1
- Readings:        Virgil, *Aeneid*
- March 3            **Test 2: Material read and discussed in Weeks 4 to 8 (20% of term mark).** The Matter of Rome  
March 4            On Piety in the Roman Manner
- Week X*                    The Post-Axial Age (2): Rome, part 2
- Readings:        Ingersoll, *World Architecture*, 5.1; Cicero, *On Government*.
- March 10         On the Laws of Nature  
March 11         **Hand-in Drawing (20% of term mark).** Under the Roof of the Heavens

*Week XI*                      The Post-Axial Age (3): Jesus Movement and Christ Cult

Readings:        Ingersoll, *World Architecture*, 6.1, 6.2; *The Bible*,  
tbd; Augustine, *The Confessions of a Sinner*

March 17        The Kingdom of God

March 18        Original Sin and a Complicated Life

*Week XII*                     The Formation of the West

Readings:        Ingersoll, *World Architecture*, 8.3; St. Benedict, *The  
Rule of Benedict*; Gregory of Tours, *History of the  
Franks*

March 24        The Franks

March 25        Christendom

*Week XIII*                    The Onetime “Rest”

Readings:        Ingersoll, *World Architecture*, 6.3, 7.1, 7.2 (Japan),  
8.1 (Burubudur, Angkor); Murasaki Shikibu, *The  
Tale of Genji*

March 31        Islam, Mesoamerica

April 1           South Asia, Japan

April 13        **Test 3: Material read and discussed in Weeks 9  
to 13 (20% of term mark).**

*Weeks II to XIII*

**Participation: every student will actively  
participate in the class for one week in the term;  
participation implies that one will have read the  
assigned texts, and that one will be able to  
engage in a dialogue with the instructor. A mark  
will be given for the performance of the group as  
a whole (20% of term mark)**

## On Architectural History

This course also aims, in addition to providing a grounding in the world of Middle Eastern and European Antiquity, also a first overview of the history of architecture of the West—that is the tradition that is the primary context of contemporary architecture in North America, the tradition to which you will most likely make a contribution in the future. At the end of your first year in architecture school, you should have the beginning of a architectural-historical literacy, which is a pre-condition for you to both understand and participate in architectural culture. Architectural-historical literacy includes a basic understanding of the major architectural styles, typologies, and symbols, major architects, and key stories that shape architectural history as a story. As Arch 143 covers the period from the beginning of civilization up to the year 800 CE, you will have to show familiarity with major buildings constructed in that era.

One part of each of the three tests will examine your understanding of architectural history as discussed in this course. The test will consist of two parts. The first one is a simple recognition test: you'll be presented with 10 slides of buildings, each showing for 20 seconds a significant aspect or key detail of a building discussed in class, and you will have to identify that building correctly by providing the building type, name building, date by century, architect or patron (if known). Each correct answer will be worth 2.5% of the test, thus getting all the buildings represents 25% of the mark of the test.

You will need to identify the following 125 buildings and architectural ensembles. Buildings marked with an asterisk (\*) are not discussed in Ingersoll's book, but will be discussed in the lectures.

	Type	Place	Name	Date
<i>Caves and Primitive Huts</i>				
01	Hut	Terra Amata	n/a	380000 BCE
02	Cave	Lascaux	n/a	17000
03	Hut	Mezhyrich	Bone Hut	15000
04	Settlement	Banpo	n/a	5000 BCE
<i>Fertile Crescent 1: Origins</i>				
05	Sanctuary	Göbekli Tepe	n/a	11000
06	Fortification	Jericho	n/a	7500
07	Settlement	Catalhöyük	n/a	7000
08*	Desert Kites	Jordan	n/a	7000
09*	Settlement	Hassuna	n/a	5700
<i>Fertile Crescent 2: Mesopotamia</i>				
10	Sanctuary	Eridu	Temple of Enki	5000 - 3500
11	Sanctuary	Uruk	White Temple	3400

12	Sanctuary	Khafaje	Oval Temple	2650
13	Palace	Mari	P. of Zimrilin	2250
14	Ziggurat	Ur	Z. of Ur-Namm	2015 - 550
15	City Map	Nippur	n/a	1500
16*	Sanctuary	Sippar	Temple of Shamash	850
17	Palace	Khorsabad	P. of Sargon II	705
18	Ziggurat	New Babylon	Entemenanki	570
19	Fortification	New Babylon	Ishtar Gate	575

*Fertile Crescent 3: Egypt*

20	Funerary Complex	Saqqara	Djoser's Tomb	2650
21	Pyramid	Gizeh	Pyramid of Khufu	2570
22	Mortuary Temple	Deir el-Bahri	T. of Mentuhotep	2010
23	Mortuary Temple	Deir-el-Bahri	T. of Hatshepsut	1480
24	Sanctuary	Luxor/Thebes	T. of Amon-Ra	1400-1250
25	Sanctuary	Akhentaton	Temple of Aton	1340
26	Sanctuary	El-Karnak/Thebes	Great T. of Amon	1400-1290
27*	Sanctuary	Philae	Temple of Isis	370
28*	Sanctuary	Edfu	Temple of Horus	237

*European Neolithic cultures*

29	Sanctuary	Carnac	Megaliths	4000-2500
30	Sanctuary	Malta	Hagar Qim	3600-2500
31	Sanctuary	Wiltshire	Stonehenge	3000-2000

*Minoan Civilization*

32	Palace	Knossos (Crete)	n/a	2000–1400
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*Indus Civilization*

33	Settlement	Mohenjo-Daro	n/a	2500
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*Early China*

34*	Palace	Erlitou	reconstruction	2000
35*	Palace	Yinxu	reconstruction	1200
36	Ruler's City	anywhere	wangcheng	700
37	Tomb	Xi'an	Shi Huangdi's tomb	210
38	Fortification	North China	Great Wall	200-1368 CE
39*	Funerary models	China	models	100
40	House	China	Siheyuan	n/a

*Trojan and Mycenaean Civilization*

41*	City	Hissarlik (Troy)	n/a	3000-1250
42	Palace	Mycenae	n/a	1600-1200
43	Palace	Tiryns	n/a	1400-1200
44*	Palace	Pylos	Nestor's Palace	1400

*Israel / Juda*

45	Sanctuary	Jerusalem	Temple of Solomon	950
46*	Sanctuary	no location	Tabernacle of Moses	700
47*	Sanctuary	future	Temple of Ezekiel	500
48	Sanctuary	Jerusalem	Temple of Herod	0 CE

*Early India*

49	Memorial	Sanchi	Great Stupa	250
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*Early Mesoamerican Cultures*

50	Sanctuary	Monte Albán	Platforms & courts	500-200
51	City	Teotihuacán	n/a	100-100 CE
52	Pyramid	Teotihuacán	Sun Pyramid	100 CE

*Classical Greek and Hellenistic Civilization*

53*	Sanctuary	Samos	n/a	650
54	Sanctuary	Olympia	Temple of Hera	600
55	Ensemble	Delphi		600 - 300
56*	Sanctuary	Paestum	Temple of Hera 1	550
57*	Sanctuary	Ephesus	T. of Artemis II	550
58	Acropolis	Athens	n/a	550 – 300
59	Agora	Athens	n/a	550 - 100
60	Theatre	Athens	T. of Dionysios	550 – 350
61	Temple	Paestum	Temple of Athena	500
62	Sanctuary	Aegina	T. of Aphaia	500
63*	Sanctuary	Olympia	T. of Zeus	470
64	City	Miletus	n/a	470
65	Stoa	Athens	Paintes Stoa	470
66	Sanctuary	Bassae	T. of Apollo	450
67	Sanctuary	Athens	T. of Hephaistos	449
68	Sanctuary	Athens	Parthenon	447
69*	Sanctuary	Agrigento	T. of Concordia	440
70	Gate	Athens	Propylaea	437
71	Sanctuary	Athens	Erechtheion	420
72*	Sanctuary	Athens	T. of Athena Nike	420
73	City	Priene	n/a	350

74	Tomb	Halicarnassus	T. of K. Mausolos	350
75	Theatre	Epidaurus	n/a	340
76*	Monument	Athens	M. of Lysicrates	335
77*	Sanctuary	Ephesus	T. of Artemis III	323
78	Sanctuary	Lindos	T. of Athena	250
79	Altar	Pergamon	(now in Berlin)	160
80*	Stoa	Athens	Stoa of Attalos	159

*Persian Civilization*

81	Palace	Persepolis		500
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*Roman Civilization*

82	Sewer	Rome (For. Rom.)	Cloaca Maxima	600
83	Capitol	Rome		600-100CE
84	Forum	Rome	Forum, Romanum	600-300CE
85	Sanctuary	Rome (Cap.)	Temple of Jupiter	500
86*	Sanctuary	Rome	T. of Fortuna Virilis	120
87*	House	Pompeii	House of the Faun	100
88	Archive	Rome (Cap.)	Tabularium	78
89	Basilica	Rome (For. Rom.)	Basilica Julia	46
90	Forum	Rome	Forum of Augustus	40-2
91	Altar	Rome	Ara Pacis	9
92	Sanctuary	Nîmes,	Maison Carrée	4 CE
93*	Theatre	Orange	n/a	10
94*	Aqueduct	Gardon River	Pont du Gard	50
95	Forum	Pompeii	n/a	62
96	Amphitheatre	Rome	Colosseum	72
97	Triumphal Arch	Rome (For. Rom.)	Arch of Titus	82
98	City	Timgad	n/a	100
99	Market	Rome	Market of Trajan	110
100	Sanctuary	Rome	Pantheon	125
101*	Library	Ephesus	L. of Celsus	115
102	Villa	Tivoli	Hadrian's Villa	125
103*	Baths	Rome	B. of Caracalla	215
104	Baths	Rome	B. of Diocletian	298
105	Basilica	Rome (For. Rom.)	B. of Maxentius	312
106	Triumphal Arch	Rome (For. Rom.)	A. of Constantine	315

*Early Christian Civilization*

107	Church	Rome	S. Peter's	326
108	Baptistery	Rome	Lateran B.	315
109	Church & Tomb	Jerusalem	Hoily Sepulchre	326
110	Mausoleum	Ravenna	M. of Galla Placida	430



111	Baptistry	Ravenna	Orthodox Baptistry	430
112	Church	Rome	S. Maria Maggiore	432
113	Church	Ravenna	S. Vitale	526
114	Church	Istanbul	Hagia Sophia	537

*Merovingian and Frankish Civilization*

116*	Baptistry	Poitiers	n/a	510
117	Chapel	Aachen	Charlemagne's C.	800
118*	Abbey	anywhere	Plan of St Gall	800

*Early Muslim Civilization*

119	Shrine	Jerusalem	Dome of the Rock	690
120	Mosque	Damascus	Great Mosque	715

*Tang China*

121	City	Chang'an	n/a	580
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*Japan*

122	Sanctuary	Ise	n/a	792-today
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*Southeast Asia*

123	Shrine	Magelang	Burubudur	800
124	City	Angkor	n/a	800-1200

*Mesoamerican cultures*

125	Pyramid	Chichén Itzá	El Castillo P.	890
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**On the Research Project to be undertaken in Arch 143.**

The research project will be a group project, involving 4 or 5 members, which focuses on one of the buildings listed above.

The deliverables are:

1. a scaled set of drawings (50% of the mark) containing a plan; front elevation; section; key detail; a worm's eye view of one or more bays, following the method pioneered by Auguste Choisy in his *Histoire de L'Architecture*.
2. a research report (50% of the mark) that describes the way you researched and made the drawings and that consists of: a title page; an illustrated introduction

that includes a short architectural history of the building under consideration; a justification of the choice of the building; a justification of the choice of detail; an illustrated description of the information used; a description of the research process on chronological order; a summation of the results; a critique of the results; a bibliography.

Each group must choose as its focus a relatively complex building constructed in the time period under discussion. After you have made your choice, present it for approval the TAs. Approval will take into account the level of complexity of the project: do not choose a building that would be too easy to research, draw and model.

## **Etcetera**

Moving from the sublime to the mundane, once again here the basic rule that governs class time: pagers, i- or other phones, blackberries, other electronic voice or e-mail communication devices, ipads, tablets, androids and computers, must be turned off for the duration of the class. This means that you will have to make your notes by hand with pencil, marker or pen on paper, either single sheets to be assembled in binders, or in notebooks of your choice. There is little need to address the lack of civility shown when one answers a phone class in class.

Also, for the record, the so-called “small print.” But, despite the fact it is in small print, don’t ignore it.

## **Avoidance of Academic Offenses**

*Academic Integrity:* To create and promote a culture of academic integrity, the behaviour of all members of the University of Waterloo is based on honesty, trust, fairness, respect and responsibility.

*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 - Student Petitions and Grievances, Section 4,

<http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm>

*Discipline:* A student is expected to know what constitutes academic integrity, to avoid committing academic offenses, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about “rules” for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. When misconduct has been found to have occurred, disciplinary penalties will be imposed under Policy 71 – Student Discipline. For information on categories of offenses and types of penalties, students should refer to Policy 71 - Student Discipline,

<http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm>

*Appeals:* A student may appeal the finding and/or penalty in a decision made under Policy 70 - Student Petitions and Grievances (other than regarding a petition) or Policy 71 - Student Discipline if a ground for an appeal can be established. Read Policy 72 - Student Appeals,

<http://www.adm.uwaterloo.ca/infosec/Policies/policy72.htm>