

# Introduction to Architecture

## ARCH-1311

Fall 2020 Section NH5 CRN-17658 3 Credits 10/19/2020 to 12/10/2020 Modified 10/16/2020

### Meeting Times

---

Online via eCampus.

### Contact Information

---

**Instructor:** Dr. Bahar Badiee

**Email:** Bahar.Badiee@blinn.edu

**Office:** H205, Bryan

**Phone:** 979-209-8147

**Website:** <https://www.baharbadiee.com/>

**Office Hours:** Monday and Thursday, 11 A.M. to 2 P.M. via Zoom.

Email is used as my primary mode of communication. You are welcome to contact me anytime using the contact information below. Please be aware that you will need to contact me directly - not from e-Campus - using my email address or I might not receive your emails. Emails will be answered within 2 hrs from 8 a.m. to 8 p.m. daily. If you emailed me but didn't receive a reply within that time frame, you should assume that your email was never received. I teach several courses and have hundreds of students, so please include your course information with your email so that I can access your profile quickly and efficiently. If you wish to call me, please leave a detailed voice message, clearly stating your first and last name and I will get back to you ASAP. I am not on call and will not be available 24/7. Please contact me during the regular business hours only.

### Description

---

An introduction to architecture that explores the practices, principles, and wider context of architecture and design. Focuses on the role of architecture in society, culture, and the broader physical context of the built environment. Course is intended to fulfill all or part of the following National Architectural Accrediting Board (NAAB) Student Performance Criteria: A.8 Cultural Diversity and Social Equity; D.1 Stakeholder Roles in Architecture

3 lecture hours per week; 48 total contact hours. Credit: 3 semester hours.

### Core Curriculum Statement

---

Through the Texas Core Curriculum, students will gain a foundation of knowledge in human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning. For details relating to this core course, please see:

<http://www.blinn.edu/academics/core-curriculum.html> (<http://www.blinn.edu/academics/core-curriculum.html>)

# Outcomes

---

Upon successful completion of this course, students will:

1. Describe the relationship of human behavior and the built environment.
2. Summarize relevant processes of architectural education and professional practice and licensure.
3. Develop observational skills aimed at understanding and evaluating the physical and spatial qualities in architecture.
4. Describe the tools and techniques associated with architectural and other architecture related design practices.
5. Explain the importance of architectural traditions, concepts, theories, history, and technology.
6. Explain the importance and role of architecture in relation to ecological and environmental contexts.
7. Recognize the formal, spatial, and experiential qualities and principles of architecture.
8. Explain the collaborative relationship of architecture and allied professions (including but not limited to interior design, landscape architecture, construction, and fine arts).

## Materials

---

### Textbook

Purchasing a textbook is not required for this course. This course features both mandatory and supplementary textbooks. The mandatory textbook can be accessed at Blinn Library. Students can find the study material used for quizzes and tests, on eCampus, presented as power point audio shows and .PDF files in each chapter. Students are required to study and explore the files provided for each chapter if they wish to complete this course successfully.

### Course Textbook

[Understanding Architecture: Its Elements, History, and Meaning 3rd Edition \(https://www.amazon.com/Understanding-Architecture-Elements-History-Meaning/dp/0813349036/ref=sr\\_1\\_4?](https://www.amazon.com/Understanding-Architecture-Elements-History-Meaning/dp/0813349036/ref=sr_1_4?dchild=1&keywords=Understanding+Architecture%2C+3rd+Edition&qid=1587137070&sr=8-4)

[dchild=1&keywords=Understanding+Architecture%2C+3rd+Edition&qid=1587137070&sr=8-4\)](https://www.amazon.com/Understanding-Architecture-Elements-History-Meaning/dp/0813349036/ref=sr_1_4?dchild=1&keywords=Understanding+Architecture%2C+3rd+Edition&qid=1587137070&sr=8-4)

by Leland M. Roth, Amanda C. Roth Clark

ISBN-13: 978-0813349039

ISBN-10: 9780813349039

### Supplementary Reading

[Introduction to Architecture, Kindle Edition \(https://www.amazon.com/Introduction-Architecture-Francis-D-Ching-ebook/dp/B00B1V8U00/ref=sr\\_1\\_13?](https://www.amazon.com/Introduction-Architecture-Francis-D-Ching-ebook/dp/B00B1V8U00/ref=sr_1_13?crid=3AUVKP6FYNFTP&dchild=1&keywords=francis+ching&qid=1587136243&sprefix=francis+ching%2Caps%2C187&sr=8-13)

[crid=3AUVKP6FYNFTP&dchild=1&keywords=francis+ching&qid=1587136243&sprefix=francis+ching%2Caps%2C187&sr=8-13\)](https://www.amazon.com/Introduction-Architecture-Francis-D-Ching-ebook/dp/B00B1V8U00/ref=sr_1_13?crid=3AUVKP6FYNFTP&dchild=1&keywords=francis+ching&qid=1587136243&sprefix=francis+ching%2Caps%2C187&sr=8-13)

by Francis D. K. Ching (Author), James F. Eckler (Author)

ISBN-13: 978-1118142066

ISBN-10: 9781118142066

[How to Read a Building, Kindle Edition \(.PDF file provided for free\) \(https://www.amazon.com/dp/B00JD3ZL90/ref=dp-kindle-redirect?\\_encoding=UTF8&btkr=1\)](https://www.amazon.com/dp/B00JD3ZL90/ref=dp-kindle-redirect?_encoding=UTF8&btkr=1)

by Timothy Brittain-Catlin

ASIN: B00JD3ZL90

This course does not require a text book. Students can find the course material on eCampus, presented as power point audio shows and .PDF files in each chapter. Students are required to study and explore the files provided for each chapter if they wish to complete this course successfully.

### A Full PC

Completing this course requires access to a full PC and a printer. Additionally, students should have access to the appropriate software used in composing and converting documents into .PDFs such as Microsoft Word and Adobe Acrobat.

### eCampus

eCampus is required for this course and is provided by Blinn College. eCampus is a web-based learning system and electronic

community center for students and is used to supplement this course in the following areas:

- Course communication via discussion board and email.
- Quizzes, tests and survey feedback.
- Access to supplemental teaching and learning resources.
- Submission of all course materials.

You should visit eCampus regularly. It is highly recommended that you setup automatic notifications and that you visit the help desk for eCampus training as necessary. For assistance, please contact the Distance Learning HelpDesk using the information below.

- Phone: (979) 209-7298
- Location: Modular Building 2, Room 104-B
- Visit the website <http://www.blinn.edu/online/techassist.php> to complete an online help form.

### Webcam And Proctoring Requirements

This course included two proctored exams via Honorlock. In order to complete the exams, students will need:

- A webcam.
- A quiet location with no additional audio or motion in the room.
- Good lighting and steady surface. No laying on bed or holding the computer in your lap with dim lights.
- No additional faces in view of camera including faces on t-shirts or posters
- Face must be in clear view. i.e. no hoodies, ear phones, and hair must be pulled off face.
- A Photo ID.
- If the Network Speed Test is turned on and you have poor internet, Honorlock will NOT allow you to start the test. You will need to find a faster internet location to test.
- Do not need to schedule an exam time. There is no additional fee. The proctoring service is always open but allow yourself plenty of time to take the exam.

## Understanding Architecture: Its Elements, History, and Meaning 3rd Edition

**Author:** Leland M. Roth, Amanda C. Roth Clark

**Publisher:** Routledge

**Edition:** 3rd

**ISBN:** ISBN-13: 978-0813349039

**Optional**

**Availability:** Blinn Library

Purchasing this textbook is not mandatory. This textbook can be accessed at the Blinn Library. This textbook is not used as the primary source of information for student assessment.

## Course Requirements

---

### Attendance and Participation Policy

Class attendance is essential for student success and required for this course. Attendance is based on students' participation in class discussions and submission of all assignments and quizzes by their due dates.

There are 8 discussions, one for each chapter. Students will explore and study the relevant lecture notes (.PDFs), watch the videos and participate in the discussion topic allocated to each chapter. There are 8 quizzes, one for each chapter. All quiz questions are from the lecture notes (.PDFs). There are also 8 assignments, one for each chapter. The assignments are based on the lecture notes and topics explored in each chapter.

If the student does not submit all required work by their due date (e.g. assignments, quizzes, class discussions, ...) they would be considered absent. Logging in does not constitute attendance and is not recognized by SACS.

### Exams

Exam modules are located throughout the Table of Contents and contain study materials and the exams. This course contains to

major/comprehensive exams, the mid-term and the final exam. Both exams are proctored via Honorlock. [Please watch this video to learn how to activate Honrolock \(https://www.youtube.com/watch?reload=9&time\\_continue=8&v=VjY7cIVaTAW&feature=emb\\_logo\).](https://www.youtube.com/watch?reload=9&time_continue=8&v=VjY7cIVaTAW&feature=emb_logo)

### Final Group Project

In addition to quizzes, exams, assignments and discussion topics, this course requires the completion of the final/group project. Students will complete this project as a group. Students will research a particular building (monument, government building, public building, ...) and provide the reader with a comprehensive historical background of the site.

The project requires students to brainstorm, exchange ideas and work with their partner. It is perhaps easiest if they both use a messaging app (whatsApp, Skype, Zoom, Snapchat, Viber...) or email, to share images and ideas. Once the students agreed on a building, they will each do their own research and collect historical facts about that site. They will then share their notes with their partner and write the essay. **EACH student should upload the same essay** onto the designated Dropbox by its due date in order to receive individual grades and full credit. Please see the 'Final Project' tab for more information. **IMPORTANT:** students informing the instructor that they were unable to contact or work with their partner **one week before the final submission date** will receive a zero for the project. Unless hospitalized or faced with serious medical conditions, no excuses are acceptable as there is an ample amount of time provided for the completion of the project.

### Academic Integrity and Proctoring

It is the responsibility of students to maintain scholastic integrity by refusing to tolerate any form of scholastic dishonesty, including cheating, plagiarism, or any other act of dishonesty. If there is compelling evidence that a student is involved in cheating or plagiarism, the instructor will address the infraction. Students are seriously advised to avoid copy/paste while completing the assignments. Text copied and plagiarized from online resources will be detected by Dropbox and in case of plagiarism, student will receive a zero for that assignment. Student's research for each assignment should clearly **state/cite** the source of information for your findings. Citation can be as simple as including a link to a website or writing down book names, used in your research.

The two major exams in this course - midterm and the final exam - are proctored via Honorlock. Refusing to comply with Honrolock proctoring requirements will result in receiving a zero for that exam.

### Grading and Feedback

**The majority of grading for this course is computerized; that means the grade is a direct reflection of student's performance. It is the students responsibly to make sure that their work is submitted by its due date and to receive full credit. The instructor will not - under any circumstances - change students' final grade upon their request for a higher grade. This course does not include extra-credit as there are 27 gradable items that can improve or worsen student' final grade, subject to their performance.**

- Online quizzes and exam scores are available immediately on submission; students will receive a zero for incomplete/untaken quizzes, which will adversely affect their final grade.
- Every quiz remains open for 1 week. Please note individual due dates for each quiz.
- Every discussions topic will stay open for 1 week. Please note individual due dates for each topic.
- Every assignment will stay open for 1 week. All assignments must be uploaded into Dropbox by their due date or the student will not receive any credit.
- The Mid-term exam will stay open for one day. Students will have two hours to complete the exam. This test is proctored via Honorlock. Please note the due date.
- The final exam will be open for one day. Students will have two hours to complete the exam. This test is proctored via Honorlock. Please note the due date.
- Late work is not accepted as there is plenty of time allowed for completion of quizzes, assignments and participation in discussions. Students will receive regular reminders for approaching due dates via email and 'news feed' posts on eCampus.
- The final group project will be graded by the instructor. Every student will needs to upload the group essay into Dropbox by its due date in order to receive individual grades.

### Course Prerequisites and Minimal Skills

The skills required for this course can include the ability to use a computer, converting documents into .PDFs and conducting online/library research. You can find valuable information and resources necessary for the completion of this course at the online library. The library staff can help you with finding the right textbook, composing your essays, citing your papers, and much more.

- To access Blinn library please [click here \(http://www.blinn.edu/library/index.php\)](http://www.blinn.edu/library/index.php).
- To explore library's 'architecture' books please [click here \(https://libguides.blinn.edu/sb.php?subject\\_id=33695\)](https://libguides.blinn.edu/sb.php?subject_id=33695).
- To learn more about how to 'cite' your work and receive help from the 'learning center' please [click here \(https://libguides.blinn.edu/citingsources\)](https://libguides.blinn.edu/citingsources).

## ✓ Evaluation

**Participation in Class Discussions (10%):** Consists of 8 in-class discussion and 8 assignments.

**Quizzes (30%):** Consist of 8 quizzes, equally weighted.

**Tests (30%):** Consists of 2 tests - midterm and final exam - equally weighted and proctored.

**Final Project (30%):** Consists of a 1000 word, fully cited academic essay.

## Criteria

Type	Weight	Topic	Notes
Tests	30%	Mid-term and Final Exam	This course includes two comprehensive tests. The tests are open book but proctored via Honrolock. Students will need to have access to a webcam and a reliable internet connection in order to complete these tests. Test one includes chapter 1-4 and test two includes chapter 1-8.
Project	30%	Group Project - Essay	This course requires the completion of a group project, a fully cited 1000 word essay.
Quizzes	30%	Eight Quizzes	Every chapter in this course includes a quiz. Students will not be permitted to move onto the next chapter without completing each quiz. Each quiz expires at the end of the week.
Participation	10%	Eight in Class Discussions and Assignments	Every chapter of this course includes a discussion topic and a 500 word assignment.

## Breakdown

- A (100 - 90%)
- B ( 89 - 80%)
- C ( 79 - 70%)
- D ( 69 - 60%)
- F (< 60%)

## Blinn College Policies

All policies, guidelines, and procedures in the [Blinn College Catalog \(http://catalog.blinn.edu/\)](http://catalog.blinn.edu/), [Blinn College Board Policies \(http://pol.tasb.org/Home/Index/1204\)](http://pol.tasb.org/Home/Index/1204), and the [Blinn College Administrative Regulations \(https://www.blinn.edu/administrative-regulations/\)](https://www.blinn.edu/administrative-regulations/) are applicable to this course.

[Specific information on civility, attendance, add/drop, scholastic integrity, students with disabilities, final grade appeal, alternative retailers, campus carry and proctoring arrangements and cost. \(http://www.blinn.edu/syllabus-policies/\)](http://www.blinn.edu/syllabus-policies/)

Notice of any action taken under these protocol and procedures, by Blinn College or its employees, may be delivered by hand, through the U.S. Postal Service, or electronically to the student's Blinn Buc e-mail account. Notice shall be deemed received upon actual

receipt, on deposit in the U.S. Mail, or upon entering the information processing system used by Blinn College for Blinn Buc e-mail accounts, whichever first occurs.

Information about the changes Blinn has made to the Fall semester: [Back with Blinn \(https://www.blinn.edu/back-with-blinn/index.html\)](https://www.blinn.edu/back-with-blinn/index.html).

## \* Course Policies

Due to COVID-19, the attendance policy is suspended beginning 3/23/2020.

### Student Work

Student work will be released to the instructor at the end of the term.

## 📅 Schedule

- **The mid-term exam will open at the end of week 4 and is due on Friday, November 13/2020 at 8 p.m.**
- **The final exam is due at the end of week 8 and is due on Thursday, December 10/2020 at 8 p.m.**
- **The final project is due on Friday, December 4/2020 at 8 p.m.**
- **All quizzes, assignments and discussion topics are due by their individual due dates.**

When	Topic	Notes
Week 1	Form and Function	An introduction to architectural design including a comprehensive study of form and function. Following concepts will be explored: Definition of architecture, Architectural Criticism, Architect, Professional Requirements, Professional Requirements: US.A., Definition of space, Types of an architectural space, Organic Architecture, Usonian architecture, National Register of Historic Places, Environmental Psychology, Function in Architecture, Architectural/Building Surveyor, Urban Mapping.  <b>Contact Hours: 6</b>
Week 2	Structure	A comprehensive study of structure, structural frames and basics of construction science. Following concepts will be explored: Systems of construction, Structural frames, Frame & skeleton frame, Building envelope, Structural elements, Arch, Dome, Vault, Trusses, Structural engineering, Shell structures.  <b>Contact Hours: 6</b>
Week 3	Sustainable Architecture	A comprehensive study of the built environment, solar and passive architectural design. Following concepts will be explored: Buildings and the Sun, Trial and error-based experiments, Solar heat gain & building orientation, Passive solar construction/design, Passive cooling, Solar architecture, Passive house, Net zero-energy building, Air-tightness, Ventilation, Ventilation types, Waterproofing, Active Solar Architecture, Earthship house, Effect of climate on architectural forms, Prevailing winds, Global Warming.  <b>Contact Hours: 6</b>
Week 4	Climate and Architecture - Endangered Cities	A comprehensive study of the built environment and the influence of climate change on changing cities. Following concepts will be explored: Sea Level Rise – causes, Health/safety risks of sea level rise, Sunny-day Flooding, Earthquake and architecture, Earthquake-resistant Structures, Types of a building foundation, Earthquake resistant building material.  <b>Contact Hours: 6</b>  <b>Mid-term Exam is Due.</b>

When	Topic	Notes
Week 5	Architectural Practice and Communication	A comprehensive study of architectural design codes, tools and design terminology. Following concepts will be explored: Building Codes, International building codes, Federal and national building codes, Federal fair housing act, State building codes, Architectural design, Architectural design tools, Multiview drawings, Orthographic view drawings, Arranging views, Plans, Floor plans, Poché, Doors and windows, Stairs, Orientation and arrangements, Site plans, Site contours, Elevation, Section drawings.  Contact Hours: 6
Week 6	Allied Disciplines	A comprehensive study of related professions to the field of architecture. Following concepts will be explored: Interior design, Structuring space with interior design elements, Spatial form, Interior Space, Spatial transitions, the Design and construction team, Design criteria, Urbanism, Urban taxonomy, City typology, Definition of a city, Metropolis, Megalopolis, Urban/Suburban/Exurban/Rural, Make Up of a City, Zoning, Gentrification.  Contact Hours: 6
Week 7	Building Materials	A comprehensive study of the built environment and the influence of climate change on changing cities. Following concepts will be explored: Life-cycle assessment, Life-Cycle inventory, Embodied energy in building materials, Reinforced Concrete, fiber-reinforced concrete, Concrete Masonry Unit (CMU), Masonry, Concrete masonry, Building materials, Steel, Aluminum, Copper, Brass, Lead, Stone, Glass.  Contact Hours: 6  Final project is due.
Week 8	The Beginning of Architecture	A comprehensive study of ancient architecture and architectural monuments. Following concepts will be explored: Mesopotamia, Ziggurats, Ancient Egypt, Pyramids, Pylon, Mastaba, Ancient Greece, Agora, Greek theaters, Ancient Rome, Temples, Aqueducts.  Contact Hours: 6  Total Contact Hours: 48  Final Exam is due.

## MCS Background Info

### General

ACGM Approval Number: 04.0201.59 02  
 CIP Area: Architecture & Environmental Design  
 Course Type: Academic  
 Core Course: Yes

### Purpose

Introduction to Architecture aims to introduce students to elements that influence architectural decisions and help them make effective choices; to develop an understanding of the culture of architecture and to develop a foundation of drawing which incorporates creativity, imagination and innovation. Students will be given the tools to successfully work in multidisciplinary teams to produce works, process, services that are innovative and creative and the tools to develop leadership and management skills in the context of an architectural project.

### Assessment

Student Learning Outcomes will be assessed through:

- Tests
- Assignments
- Course Participation

### Semester Schedule

To be announced

## Expanded Description

An introduction to the elements of the architectural profession. (ACGM) An introduction to the profession of architecture from the perspective of the creative process. The course discusses concepts of problem solving, creativity, imagination and its application on the design process from the onset to final product. Students are enticed to think holistically, to envision and create new products taking into consideration its impact on the environment and in society.

## Hours

Credit	Lecture	Lab	Clinical	Practicum	Experiential
3	3	0	0	0	0