



**ARCH 3600: International Design Build - Construction**  
**College of Architecture and Planning**  
**Undergraduate Architecture**

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Class Meeting Days: December 28, 2015- January 14, 2016

Class Term: Winterium 2015

Class Room: Nicaragua, Study Abroad

## **COURSE SYLLABUS**

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### **COURSE OVERVIEW**

#### **I. Welcome!**

Congratulations on completing International Design Build – Context. Now we will dive into the hands on construction portion in Nicaragua!

#### **II. University Course Catalog Description**

This architecture course continues the project developed in ARCH 3600. The class challenges students to adapt design, technologies and materials to renovate a community built preschool. Group tours will allow students to experience the architecture, history and geography of Nicaragua.

#### **III. Course Overview**

Students will meet in Managua, Nicaragua and travel to Jalapa, Nicaragua, the central town of the Jalapa valley. The construction project will be located in a small village, accessible from Jalapa. Construction will immediately begin on the project selected and designed in the previous semester course. Adjustments will have to be made to accommodate the realities of material and technology availability in order to meet the project delivery date and end of the class. The build time will be 10 days. There will be excursions to a National Park to explore some of the unique geography of Nicaragua and to Leon where there will be opportunities to visit cultural museums, observe the colonial architecture and enjoy the beach.

**IV. Course Goals and Learning Objectives**

Be able to think critically to allocate resources of time, money, materials and community engagement. Understand cultural, political, social and environmental context of the community. The practical understanding of innate materiality and local resources derived from the landscape and environment. Engage in the act of building in a way that is relevant to the cultural context.

**V. Course Prerequisites**

ARCH 3600, students must have junior standing at the start of the class.

**VI. Course Credits**

3 credit – Study Abroad

**VII. Required Texts and Materials**

All readings will be distributed through canvas.

**VIII. Course Schedule**

The following is a proposed schedule and is subject to change.

Class  
Schedule

Days	Proposed Schedule
1	Travel from Denver to Managua
2	Travel to Jalapa (5hr travel time)
3	Demolition, excavation, site preparation
4	Begin construction
5	Holiday-Excursion to National Park, Somoto Canyon
12-Jun	Construction on site
13	Site cleanup and Community Ceremony
14	Site visits and documentation for next project
15	Travel to Leon ( 5hr travel time)
16	Free day in Leon
17	Travel to Managua (2hr travel time)
18	Travel to Denver

## EVALUATION

### VIII. Assignments

Sketch book was graded based on:

Level	Rubric
Excellent   Developed  Non Existent	Completion
Excellent   Developed  Non Existent	Participation
Excellent   Developed  Non Existent	Quality

### X. Basis for Final Grade

(JO I think we should make it be out of 100)

Assessment	Points Possible	Percent of Final Grade
10 Sketches	20	20%
Attendance	15	15%
Community Interaction		15%
<i>National Anthem</i>	5	
<i>Respectful Interaction</i>	10	
Construction Participation	50	50%
	100	100%

Grading scale:

Scale (points or %)

94-100	A
90-93	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
67-69	D+
64-66	D
60-63	D-
0 - 59	F

### XI. Grade Dissemination

CU Denver utilizes web grading which is accessed through [UCDAccess](#). All web grading information can be found at [www.ucdenver.edu/student-services/resources/registrar/faculty-staff/](http://www.ucdenver.edu/student-services/resources/registrar/faculty-staff/)

## COURSE PROCEDURES

### XII. Course Policies: Grades

#### **Attendance Policy:**

UC Denver Student Attendance and Absences Policy:

[http://www.ucdenver.edu/faculty\\_staff/employees/policies/Policies%20Library/OAA/StudentAttendance.pdf](http://www.ucdenver.edu/faculty_staff/employees/policies/Policies%20Library/OAA/StudentAttendance.pdf)

**Late Work Policy:** No late work accepted.

**Extra Credit Policy:** An exhibit will be displayed on the second floor after the trip. Involvement in exhibit preparation will be considered extra credit.

#### **Grades of "Incomplete":**

Incomplete grades are given only in situations where unexpected emergencies prevent a student from completing the course; students have up to one year (three semesters) to complete course requirements. The instructor is the final authority on whether you qualify for an incomplete. Incomplete work must be finished within the time allowed or the "I" will automatically be recorded as an "F" on your transcript.

**Group Work Policy:** Everyone must take part in a group project. All members of a group will receive the same score; that is, the project is assessed and everyone receives this score.

### XIII. Course Policies: Technology and Media

**Email:** Only email instructors through UCDenver email.

**Canvas:** Email instructors through canvas. Canvas will be used to distribute grades and assignments. You can use Canvas to contact other students in class.

### XIV. Course Policies:

#### **The Student and Community Counseling Center (located in Tivoli 454)**

The Student and Community Counseling Center is located in Tivoli 454 and provides cost-free and confidential mental health services to help students manage personal challenges that impact emotional or academic wellbeing. You can learn more at the Center at <http://www.ucdenver.edu/life/services/counseling-center> or by calling 303-556-4372.

#### **Campus Assessment, Response & Evaluation (CARE)**

The Campus Assessment, Response & Evaluation (CARE) Team, was created at the University of Colorado Denver and Anschutz Medical Campuses to address the health and safety needs of students as well as the campus community. If you have immediate concern about the behavior or safety of a student at CU Denver, help by making a referral to the campus Assessment, Response & Evaluation (CARE) Team. The CARE team's purpose is to promote a safe productive learning, living and working environment by addressing the needs of students, faculty, and staff. If you or a classmate are in need of help, please submit a concern at <http://www.ucdenver.edu/care> or call 303-352-3579.

**Late Arrivals:** Late arrivals will be documented on Canvas and will influence grade.

**Auraria Library:** Utilize the Auraria Library services, research databases and collections, for assignments. Contact a librarian below:

<http://library.auraria.edu/services/researchhelp/specialists>.

**Writing Center:** If you engage students in writing, consider including the use of the Writing Center as one of your expectations.

<http://www.ucdenver.edu/academics/colleges/CLAS/Centers/writing/Pages/TheWritingCenter.aspx>

**Religious Observances:** Notify instructors in advance if you anticipate missing class due to major religious observances.

## UNIVERSITY POLICIES

### XV. Access

#### **Disability Access:**

The University of Colorado Denver is committed to providing reasonable accommodation and access to programs and services to persons with disabilities. Students with disabilities who want academic accommodations must register with Disability Resources and Services (DRS) in Academic Building 1, #2116, Phone: 303-315-3510 , Fax: 303-315-3515. I will be happy to provide approved accommodations, once you provide me with a copy of DRS's letter. Note: DRS requires students to provide current and adequate documentation of their disabilities. Once a student has registered with DRS, DRS will review the documentation and assess the student's request for academic accommodations in light of the documentation. DRS will then provide the student with a letter indicating which academic accommodations have been approved.

### XVI. Academic Honesty

**Student Code of Conduct:** Students are expected to know, understand, and comply with the ethical standards of the university, including rules against plagiarism, cheating, fabrication and falsification, multiple submissions, misuse of academic materials, and complicity in academic dishonesty. For suggestions on ways to avoid academic dishonesty, please see the Academic Honesty Handbook:

[http://www.ucdenver.edu/faculty\\_staff/faculty/center-for-faculty-development/Documents/academic\\_honesty.pdf](http://www.ucdenver.edu/faculty_staff/faculty/center-for-faculty-development/Documents/academic_honesty.pdf)

Plagiarism is the use of another person's ideas or words without acknowledgement. The incorporation of another person's work into yours requires appropriate identification and acknowledgement. Examples of plagiarism when the source is not noted include: word-for-word copying of another person's ideas or words; the "mosaic" (interspersing your own words here and there while, in essence, copying another's work); the paraphrase (the rewriting of another's work, while still using their basic ideas or theories); fabrication (inventing or counterfeiting sources); submission of another's work as your own; and neglecting quotation marks when including direct quotes, even on material that is otherwise acknowledge.

Cheating involves the possession, communication, or use of information, materials, notes, study aids, or other devices and rubrics not specifically authorized by the course instructor in any academic exercise, or unauthorized communication with any other person during an academic exercise. Examples of cheating include: copying from another's work or receiving unauthorized assistance from another; using a calculator, computer, or the internet when its use has been precluded; collaborating with another or others without the consent of the instructor; submitting another's work as one's own.

Fabrication involves inventing or counterfeiting information—creating results not properly obtained through study or laboratory experiment. Falsification involves deliberate alteration or changing of results to suit one's needs in an experiment or academic exercise.

Multiple submissions involves submitting academic work in a current course when academic credit for the work was previously earned in another course, when such submission is made without the current course instructor's authorization.

Misuse of academic materials includes: theft/destruction of library or reference materials or computer programs; theft/destruction of another student's notes or materials; unauthorized possession of another student's notes or materials; theft/destruction of examinations, papers, or assignments; unauthorized assistance in locating/using sources of information when forbidden or not authorized by the instructor; unauthorized possession, disposition, or use of examinations or answer keys; unauthorized alteration, forgery, fabrication, or falsification of academic records; unauthorized sale or purchase of examinations, papers, or assignments.

UC Denver has a license agreement with Turnitin.com, a service that helps detect plagiarism by comparing student papers with Turnitin's database and Internet sources. Students who take this course agree that all required papers may be submitted to Turnitin. While students retain copyright of their original course work, papers submitted to Turnitin become part of the Turnitin's reference database for the purposes of detecting plagiarism.

Complicity in academic dishonesty involves knowingly contributing to or cooperating with another's act(s) of academic dishonesty.

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**ACTUAL OUTCOMES:**

The students respectfully listened and accepted the design changes that were a result of material availability and cost and local construction practices.

Students had to redesign, on the spot, the footbridge using available materials for formwork and structure.

Both community workers and the students found multiple re-uses for the materials removed during the demolition stage.

The local craftsman generously shared their expertise and equipment to teach the students welding, concrete cutting, laying CMU and brick, form building, concrete mixing, rebar tying, concrete finishing, and roofing.

The students formed relationships based on mutual respect with the community volunteers they were working with, the community members providing food and lodging, and community residents interested in engaging in social activities. Local children found the students irresistible, and the students were happy to engage them in simple construction tasks and play.

Sketchbooks were turned in with construction details and observations on construction practices.

Days	Actual Schedule
1	Travel from Denver, Managua.
2	Visit historic monuments in Managua, travel to Jalapa (5hr travel time)
3	Demolition, excavation, site preparation (construct latrine)
4	Site-wall foundation formwork, rebar production, temporary shade structure construction, bridge formwork
5	Holiday-Excursion to National Park, Somoto Canyon
6	Pour site-wall foundation, Structure formwork, rebar production, excavate post holes for enclosure fencing, fence post production
7	Site hardscape formwork, pour structure, pour bridge and site slabs, pour fence posts
8	Structure formwork, window & fence panel production, rebar production
9	Pour structure, window & fence panel production, rebar production, lay CMU site-wall,
10	Erect steel roof system, paint window & fence panels, gate production, continue CME site-wall, finish structural concrete
11	Form and pour site-wall columns and bond beam, install roofing
12	Paint interior and exterior, install electrical, finish site-wall columns

13	Install window & fence panels, site cleanup, Community Ceremony
14	Site visits and documentation for next project
15	Travel to Leon with excursion to visit Artist Guerra and his work in-situ.
16	Free day in Leon
17	Travel to Managua, excursion to Volcano summit, Celebration Dinner w/ cultural artists, musicians and dancing.
18	Travel to Denver