

**Columbia University**  
**Graduate School of Architecture, Planning and Preservation**  
**Community Development Studio/Spring 2019**  
**Professors Malo Andre Hutson and Maria Garces**

## **Chile: Disaster Management and Recovery**

**Course: PLANA 6911, Section 2** Community Development Studio (6 points)

**Time:** Wednesdays 3-7 pm

**Room:** 203 Fayerweather

**Professor Hutson's Office:** 305 Buell Hall

**Professor Hutson's Office Hours:** Wednesdays 9:30-11 am.

Online office hours sign-up link: <https://www.wejoinin.com/sheets/nzaij>

**Phone:** 212-853-2213

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### **Teaching Assistant:**

Gayatri Kawlra [gk2444@columbia.edu](mailto:gk2444@columbia.edu)

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## **Background and Studio Objectives:**

This studio is part of a 2-year research study being funded by the [Columbia President's Global Innovation Fund](#) that will analyze the recovery phase of the disaster management process in Santa Olga within the Municipality of Constitucion in the Maule region, which this past year experienced the worst wildfire in Chile's modern history. The wildfire destroyed 1,000 homes, displaced roughly 5,000 residents, and claimed ten lives.

Our case study analysis will focus on how effectively or ineffectively the State and key stakeholders rebuild, repair, reconstruct, and return Santa Olga to a functional state. We are also interested in understanding how well the community is restored back to the prevention phase (1st phase). We will examine the recovery phase in two parts: 1) short-term actions and 2) long-term actions. Short-term actions are the restoration of vital support systems, distribution of immediate aid to victims, efficacy of various financial relief schemes, and recovery of basic facilities and services. Long-term actions include rebuilding infrastructure, reimbursing property

losses (e.g. insurance, financial aid, or buyback schemes), establishing ongoing communication with the public, and various social rehabilitation programs.

In our analysis of the disaster management recovery phase we will focus on three questions:

- 1) How are urban planning and reconstruction plans implemented or not implemented? What are/have been the barriers to implementation? For example, are they hindered by factors such as conflicts between government agencies or the reallocation of decision-making powers? Or are urban planning and reconstruction plans implemented because of improved procedures and dispute resolution mechanisms?
- 2) What institutional relationships exist between different participating actors in the planning and rebuilding process? How have they and do they change over time during the recovery phase?
- 3) How do management and government organizational structures impact the disaster management and recovery phase response?

## **Course Requirements:**

### **Time Commitment**

This studio will normally meet for approximately 4 hours each week. However, because this studio will require a trip to Chile, we will need to conduct many of our meetings via Skype or during our site visit during spring break. It is expected that students will put in the effort necessary to produce a quality report and presentation. The Professor's and TA will be available during class time and outside of it within reason for consultation with the students.

### **Studio Presentations**

On Wednesday, March 6, all of the studio teams will present progress reports at a mid-term review. At the end of the semester, the procedure will be repeated for the final review. During these reviews, all students should have the opportunity to participate in the presentation. Our studio will also plan an additional presentation to the Regional Plan Association. Generally, clients and other guests do not attend the Urban Planning mid-term or final studio reviews.

Each studio team will have 30 minutes for the presentation followed by 30 minutes of discussion by the non-studio Urban Planning faculty. This is an interim report and should indicate your general approach to the 'problem' posed by the Regional Plan Association. To this extent, the presentation should include (1) a description of the problem accompanied by relevant background, (2) identification of and your

involvement with the Regional Plan Association, (3) a description of your study methodology (i.e. how you gathered information such as e.g., historic research, site visits, interviews), (4) the key findings of the analysis and planning ideas that you are going to explore as solutions, and (5) your current expectations about the viability of these alternative solutions. The presentations should be of high professional quality both graphically and verbally. All first-year students are required to attend the full day of presentations.

### **Final Product**

The final products of this studio will include an oral presentation, a written report, and a PowerPoint presentation. A digital copy of the report and the PowerPoint must be submitted to the UP Program for inclusion on the web site. A presentation of studio work is also made as part of the School's end-of-year show (see syllabus for dates and times)

### **Readings**

The professors and TA will assign additional readings throughout the semester that will be necessary to support the work of the studio.

### **Grading:**

Grades will be based on the following:

Class Participation: 50%

Class Presentations: 25%

Final Report: 25%

### **Policy on Religious Holidays:**

If you will be observing any religious holidays this semester that will prevent you from attending a regularly scheduled class or interfere with fulfilling any course requirement, notify Professor's Hutson and Tajbakhsh or the TA within the first two weeks of the semester. Otherwise, any absence due to a religious holiday will be treated as a missed class.

### **Important Dates**

**Mid-semester Studio Review Presentation: Wednesday March 6, 2019**

**Final Studio Review Presentation: May 8, 2019**

**Final Studio Products Due: May 10, 2019**

### **Statement of Academic Integrity:**

*Any test, paper or report submitted by you and that bears your name is presumed to be your own original work that has not previously been submitted for credit in another course unless you obtain prior written approval to do so from Professor Hutson.*

*In all of your assignments, including your homework or drafts of papers, you may use words or ideas written by other individuals in publications, web sites, or other sources, but only with proper attribution. "Proper attribution" means that you have fully identified the original source and extent of your use of the words or ideas of others that you reproduce in your work for this course, usually in the form of a footnote or parenthesis.*

*As a general rule, if you are citing from a published source or from a web site and the quotation is short (up to a sentence or two) place it in quotation marks; if you employ a longer passage from a publication or web site, please indent it and use single spacing. In both cases, be sure to cite the original source in a footnote or in parentheses.*

*If you are not clear about the expectations for completing an assignment or taking an examination, be sure to seek clarification from Professor's Hutson or Garces or the TA beforehand.*

*Finally, you should keep in mind that as a member of the campus community, you are expected to demonstrate integrity in all of your academic endeavors and will be evaluated on your own merits. So be proud of your academic accomplishments and help to protect and promote academic integrity at Columbia University. The consequences of cheating and academic dishonesty - including a formal discipline file, possible loss of future internship, scholarship, or employment opportunities, and denial of admission to another graduate program - are simply not worth it.*

### **Students with Disabilities:**

*If you need accommodations for any physical, psychological, or learning disability or if you want me to have emergency medical information, please speak to me after class or during office hours.*

## Required Reading for Course:

There will not be a course reader and where possible electronic resources will be available via the online course website.

## **Course Content and Reading Schedule**

### **Week #1: January 23: Introduction to the Course and Studio**

**Expectations: CLASS WILL MEET FROM 5-7 PM TODAY ONLY. FACULTY AND TA HAVE A MANDATORY STUDIO INSTRUCTION MEETING BEFOREHAND.**

#### ***Required Readings:***

March, A., Kornakova, M. and Leon, J. (2017) Integration and collective action: Studies of urban planning and recovery after disasters. In A. March and M. Kornakova (Eds.), *Urban Planning for Disaster Recovery*. Oxford, Cambridge: Butterworth-Heinemann. (READ CHAPTERS 1 AND 2)  
<https://escholarship.org/content/qt3zv5q8n2/qt3zv5q8n2.pdf>

Chile Workshop on Disaster Management and Recovery

<https://globalcenters.columbia.edu/news/workshop-disaster-management-and-post-disaster-recovery>

#### **Recommended Readings and Resources:**

Alexander, D. (2002). *Principles of emergency planning and management*. Oxford, England: Oxford University Press.

Blaikie, P.M., Cannon, T., Davis, I., and Wisner, B. (1994). *At risk: Natural hazards, people's vulnerability, and disasters*. London, New York: Routledge.

Boyd, A., et al. (2014) *Planning for post-disaster recovery: Next generation*. American Planning Association report. Washington, D.C.: American Planning Association Publications.

Coppola, D. P. (2011). *Introduction to international disaster management* (2<sup>nd</sup> ed.). Amsterdam: Butterworth-Heinemann.

March, A., Kornakova, M. and Leon, J. (2017) Integration and collective action: Studies of urban planning and recovery after disasters. In A. March and M. Kornakova (Eds.), *Urban Planning for Disaster Recovery*. Oxford, Cambridge: Butterworth-Heinemann.

Meerow, S., Newell, J.P., and Stults, M. (2016). Defining urban resilience: A review. *Landscape and Urban Planning*, 147, 38-49.

Mileti, D.S. (1999). *Disasters by design: A reassessment of natural hazards in the United States*. Washington, D.C.: Joseph Henry Press.

Oliver-Smith, A. (2002). Theorizing disasters: Nature, power, and culture. In S. Hoffman, and A. Oliver-Smith (Eds.), *Catastrophe and culture* (pp. 23-47). Santa Fe: School of American Research Press.

Wijkman, A. and Timberlake, L. (1984). *Natural disasters. Acts of god or acts of man*. Washington: Earthscan.

Wisner, B., Blaiki, P. Cannon, T., and Davis, I. (2004). *At risk: Natural hazards, people's vulnerability and disasters* (2<sup>nd</sup> ed.). London, New York: Routledge.

## **Week #2: January 30: Historical Analysis, Forming Groups and Methodological Approach**

TBD

### ***Required Readings:***

### **Recommended Readings and Resources:**

TBD

## **Week #3: February 6: Finalize Semester Workplan, Methodological Approach, and Develop Methodological Tools**

### ***Required readings:***

TBD

*Recommended readings:*

**Week #4: February 13: Finalize Methodological Tools**

*Required readings:*

TBD

*Recommended readings:*

**Week #5: February 20: Finalize Methodological Tools and Data Collection**

*Required readings:*

TBD

*Recommended readings:*

**Week #6: February 27: Data Collection and Draft Mid-semester Review Presentation**

*Required readings:*

None.

**Week #7: Monday, March 4: Mid-semester Practice Presentation and Prep**

**\*\*Mid-semester Studio Reviews Wednesday March 6 from  
12:00-6:00 pm**

**Week #8: March 13: Class Check-in to Reflect, Reassess, and Re-visit Workplan and Approach; Prep for Trip to Chile**

*Required Readings:*

None.

**Week #9: WEEK OF March 18-22: TRIP TO CHILE**

*Required readings:*

TBD

*Recommended readings:*

TBD

**Week #10: March 27: Reflections on Trip to Chile and Data Analysis**

**Week #11: April 3: Data Analysis and Group Integration**

**Week #12: April 10: Data Analysis and Group Integration**

**Week #13: April 17: Begin Drafting Final Report**

**Week #14: April 24: Drafting Final Report and PowerPoint Presentation**

**Week #15: May 8: FINAL STUDIO REVIEWS. 10 am-6 pm Wood Auditorium.**

**Final Studio Report and PowerPoint Presentation Due: May 10, 2019.** Electronic copies **AND** hard copies of the Studio Report and PowerPoint Presentation must be submitted. **Professors will provide**



**details as to where the hard copies must be submitted. The electronic copies must be submitted via the course website by 11:59 p.m. on May 10, 2019.**

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