

Syllabus

CMP 4380 & 6380 Green Communities, “Stream Daylighting: reconnecting our neighborhoods to water.”

Fall 2019

Instructor: Daniel Roper

Day/Time: Friday October 5 - Saturday October 12, 2019

Location: University of Utah & Mexico City, Mexico

Office hours: by appointment

Stream Daylighting: reconnecting our communities to water

“Stream daylighting is a relatively new approach that brings these buried waterways back to life by physically uncovering and restoring them. Daylighting is an applicable technique to assist communities in reducing polluted runoff, addressing flash flooding concerns, and improving the livability of the built environment.” American Rivers

For generations we have planned, engineered and designed our communities so that we minimize our contact with water in the name of public health & safety, efficiency and protection from storms. During this course we will explore what is possible if we rethink how our communities interact and embrace our natural systems. We will travel to Mexico City to visit the Rio Piedad and to work with those that are making the dream of daylighting the river a reality. As Ann Riley – a pioneer of stream daylighting in Berkeley, California – explains, “Stream restoration [and daylighting] is neighborhood restoration” (*Urban Stream Restoration* 1998).

Daylighting, a multi-disciplinary approach among the fields of planning, engineering, architecture, natural sciences, social sciences, and business, will be viewed through the lens of urban hydrology. We will take a whole systems approach to daylighting by exploring the following areas of study:

- River Daylighting - Biological, Social and Economic Impacts
- Green Stormwater Infrastructure
- Earthquake Resilience Planning
- Bicycle/Pedestrian Transportation (or Multi Modal Transportation)
- Historical Neighborhood Preservation
- The integral role of arts in our cities and neighborhoods
- Parks & public space
- Affordable housing

Reading:

Students will be required to purchase and read selected chapters from the following books:

1491 & 1493; Charles C. Mann

Additional documents will be provided through Canvas or made available by downloading PDF files from assigned websites.

Grading & Participation

Students will be expected to participate regularly in class discussions, in-class work sessions and group projects. Along with the required reading, students will be required to keep an online or hardcopy journal of their observations, questions, concerns, and ideas related to the topics. This class will challenge students to address problems associated with river & stream daylighting. We will explore creative ways to make incremental transitions that transform urban systems based in part on successful models throughout the world, applying these strategies to local case studies.

Because the majority of coursework takes place in Mexico City we have a full schedule of site visits and meetings with local stakeholders and students. Opportunities for free exploration are built into the schedule. (See below)

Grading will be based on the following:

Class attendance and classroom participation: 50%

Analytical journal entries: 25%

Final paper: 25%

Faculty and Student Responsibilities

"Faculty...must strive in the classroom to maintain a climate conducive to thinking and learning." PPM 8-12.3, B.

"Students have a right to support and assistance from the University in maintaining a climate conducive to thinking and learning." PPM 8-10, II. A

ADA Statement

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations.

All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. Students have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, plagiarism, and/or collusion, as well as fraud, theft, etc. Students should read the Code carefully and know they are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee.

Fall 2019 Stream Daylighting: reconnecting our communities to water

Schedule

- 08/23/2019 University of Utah, 9 am – 12pm.
- 10/05/2019: Travel Day, Salt Lake City, UT – Mexico City, MX
- 10/06/2019: Mexico City introduction, Taller 13 office. Site Visit – Xochimilco.
- 10/07/2019: Mexico City Introduction, Taller 13 office. Site Visit - Rio Piedad daylighting site & Ecoducto site. Group dinner with local chef.
- 10/08/2019: Site Visit - Bike share and Ciclovía programs: WRI México tour. Tactical urbanism intervention (eg. bikeway)
- Site Visit: Earthquake Resilience: w/ Centro Students. Resilience Centre: Arnold Matus Kramer. Ciudadania19s: Monica Tapia, Luis Zambrano
- 10/09/2019: Student Exploration
- Museum Visits - Antropología e Historia, MUAC (Autonomous University) or Futura CDMX
- 10/10/2019: Urban Ecology; w/ Delfin Montanana.
- Historic Preservation - Historic Centre, Roma/Condesa. Bicycle tour of neighborhoods. Group dinner.
- 10/11/2019: Student Exploration.
- 10/12/2019: Travel Day. Mexico City, MX – Salt Lake City, UT

* Online Pre and Post trip meeting dates TBD

*Reading schedule will be assigned the first week of the 2019 Fall Semester.