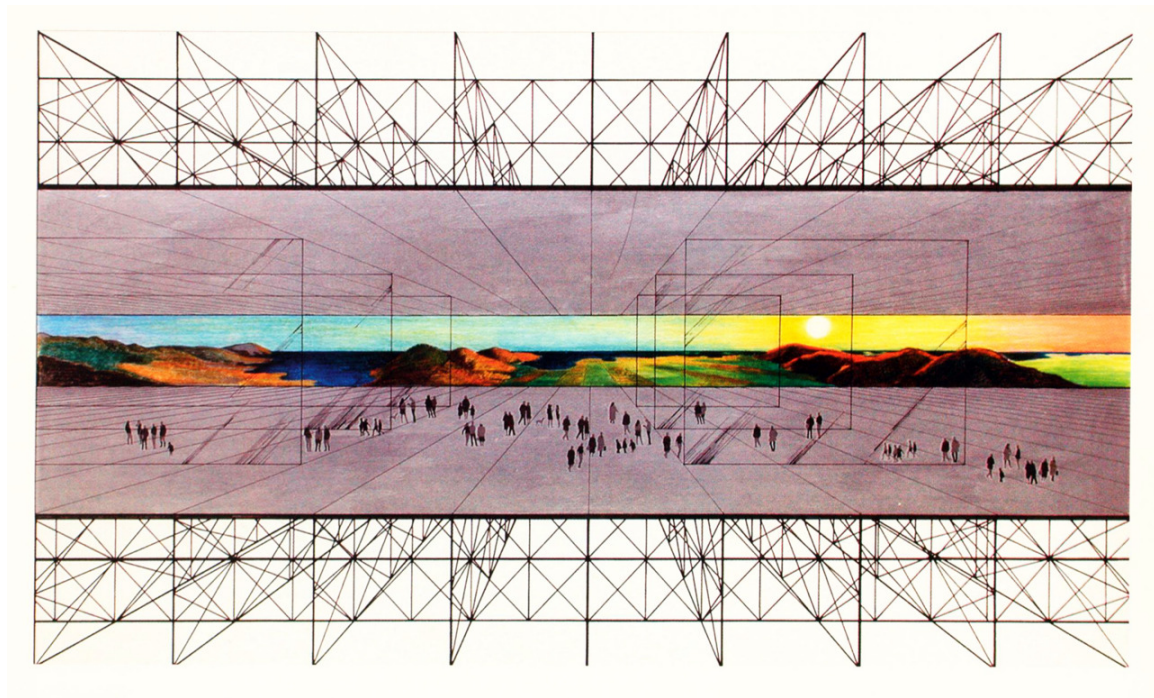B+C | A
Barnard and Columbia Architecture

DESIGN FUTURES: NEW YORK CITY

Barnard and Columbia Colleges Architecture Department
SPRING 2021 ARCH UN1010.01
Wednesday and Friday 1:10 - 3:55 pm
Location: TBD

Instructor: R. Todd Rouhe
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260 The LeFrak Center, Barnard Hall
Office Hours: Friday 10:00 - 12:00 by appointment

"A changing world might reveal itself not in the never-before-seen, but in the re-seen…
It can seem like you are seeing the future. Really you're just participating in history."
Emily Segal discussing William Gibson.

In an era when everything appears to be designed, how do we determine the definition and confines of design? What is design and what is designed? How is design different from art? "Design Futures" provides a broad introduction to design culture with the argument that contemporary innovations have made the traditional boundaries of disciplines less relevant and that interaction and overlap between modes of practice constitute the new model for design processes.

Design will be explored as capacity more than an end-product or a genius-creation. We will search for subjectivity over objectivity, for 'multi' rather than 'single'. We will intersect case studies

with formal design disciplines and the design as: system, critique, desire, everyday, politics, sustainability, market, research, network, science, biology, and culture among others. The course will take the form of an active research course, complemented by short presentations, discussions, design projects and field trips.

FORMAT AND REQUIREMENTS

The class will be divided into two parts.
PART 1: (Wed 1:10 pm – 3:55 pm) will be comprised of instructor lectures, class discussions, student presentations, and pinup/reviews of the design projects.

PART 2: (Fri 1:10 pm – 3:55 pm) will be reserved for guest lectures and design work shops

The class will be comprised of the following components:

Readings
Weekly readings will be posted to Courseworks. It is essential that they are completed in order to have a productive discussion in class. It is necessary that the students demonstrate through the class debates their understanding and analytical capacity.

Group Case Study Presentations
Students will work in groups of 2 or 3 to prepare case study presentations to the class. A separate brief will be given for the presentation guidelines and the topics will be discussed with the instructor.

Design Projects and Workshops
During the course of the semester we will develop two design projects. Projects will be assigned independently during the semester as shown on the schedule. There will be workshops and pinups during class to encourage active development of the design projects.

Guest Lectures
We'll make a series of field trips as well as host some guest lectures to complement our discussions of the projects. These are included in the schedule and/or will be announce as we get closer to them.

Evaluations
Student will be evaluated on their own capacity to fulfill the course goals, not just meeting the requirements. Working in this field goes beyond completing the requirements, it implies a stronger engaging with the given material and a passion to accomplish things. Students need to develop their critical thinking skills, analytical comprehension, and rigor in the process of making the projects. These exercises are based not only on a final product, they are based on a daily progression and evolution of the work, on an active process.

Weekly Journal Post
Each week, students are required to post (2) images based on the previous weeks Presentation and Readings. Students are asked to write a 50-100 word caption on why the subject of the Presentation or Design Topic stood out to them. The second image will be inspired by the one of the week's readings and students will write a 50-100 word caption explaining how this image relates to the week's readings.

Weekly Journal Post	25%
Design Exercise 1 – FUTURE DESIGN PROBLEM	30%
Design Exercise 2 – FUTURE FORM	30%

Class Participation / Interaction / Attendance	15%
Total	100%

Costs

For the design projects there may be a materials cost. In total, students should expect to budget around $40 towards material costs for the final design project.

Pre-requisites

There are no pre-requisites for the course

Student Learning Objectives

Students who participate fully in the course will:
• Develop a basic understanding of a range of design disciplines
• Develop a basic understanding of the design process as a collaborative endeavor
• Be able to articulate (orally and in writing using both text and images) a cogent position on the design of a product, project, or system
• Be familiar with various designers, design institutions, and design practices in New York City

Teaching Modality

Lectures, Discussions, Workshops and Design Reviews will all occur **remotely, online**. Occasional in-person activities called "**touchpoints**" may occur off campus. These could include site visits, walking tours, etc.

Asynchronous Learning:

Design Futures is a complex course. Lectures will be recorded, but group discussions, design tutorials and feedback will need to occur during the scheduled class time. Office hours are not meant to be used for covering course content missed due to absence.

Instructions for Accessing Apporto

Barnard College Student Computing has implemented a new virtual computer lab platform, Apporto, that will provide students who are enrolled in architecture courses with remote access to the same academic software that is currently installed in the physical architecture computer lab (DAL) on campus.

In order to access these applications (e.g. Adobe Creative Cloud, Rhino 6, ArcGIS, etc.) please go to barnard.apporto.com and log in using your Columbia UNI and password. Once you are logged in, you will see two Virtual Lab desktop icons: **BC GPU Virtual Desktop** and **BC Virtual Desktop**. These two virtual environments have some common applications on both, but mostly contain different software for different types of classes. For software related to your architecture courses, please use **BC GPU Virtual Desktop.**

Instructions for requesting support and reporting problems:

If you have any issues logging into Apporto with your Columbia UNI credentials, please review these pages regarding resetting your UNI password and contact CUIT directly if you are unable to resolve the problem on your own.

If you can log into Apporto, but experience any issues opening or using the applications, please email BCIT at help@barnard.edu with a description of the problem and any relevant screenshots or screen recordings. Someone from BCIT will follow up with you directly to help you troubleshoot and resolve the issue.

Class Attendance, Late Arrivals, and Absences Policy
Attendance is mandatory at all scheduled classes, discussions, lectures, and reviews. Class is held on Wednesdays and Fridays at 1:10 pm. Any student who arrives more than 20 minutes late will be considered late and anyone that arrives more than 40 minutes late will be marked absent.

Absences due to acute illness, a personal crisis (e.g. a death in the family), religious observance, or for other reasons of comparable gravity may be excused. In all such cases, students must promptly email their instructor to communicate the reason for their absence and to arrange an opportunity to review any important information they may have missed. Students who know they will miss one or more scheduled classes due to a religious holiday should meet with their instructor during the first week of classes to discuss their anticipated absences.

Unexcused absences, late arrivals, or early departures from class will reduce your course grade. Three non-consecutive absences will result in a grade reduction by one-third (1/3) of one letter grade (e.g., A- to B+). Three consecutive absences or four non-consecutive absences will adversely affect your final grade.

Honor Code
The Barnard Honor Code applies to all students in this class regardless of academic affiliation. Approved by the student body in 1912 and updated in 2016, the Code states:

We, the students of Barnard College, resolve to uphold the honor of the College by engaging with integrity in all of our academic pursuits. We affirm that academic integrity is the honorable creation and presentation of our own work. We acknowledge that it is our responsibility to seek clarification of proper forms of collaboration and use of academic resources in all assignments or exams. We consider academic integrity to include the proper use and care for all print, electronic, or other academic resources. We will respect the rights of others to engage in pursuit of learning in order to uphold our commitment to honor. We pledge to do all that is in our power to create a spirit of honesty and honor for its own sake.

The Columbia College Honor Code and the Columbia College Faculty Statement on Academic Integrity can be viewed here
https://www.college.columbia.edu/honorcode
https://www.college.columbia.edu/faculty/resourcesforinstructors/academicintegrity/statement

The Barnard Honor Code includes relevant language for the proper **use of electronic class material:**

We consider academic integrity to include the proper use and care for all print, electronic, or other academic resources.

To be clear, this means that any recorded class content — from lectures, labs, seminars, office hours, and discussion groups — is the intellectual property of your professor and your fellow students, and should not be distributed or shared outside of class.

Academic Accommodations
If you are a student with a documented disability and require academic accommodations in this course, you must register with the Center for Accessibility Resources & Disability Services (CARDS) for assistance. Students requesting accommodations will need to first meet with a CARDS staff member. Once registered, students are required to request accommodation letters each semester to notify faculty. Accommodations are not retroactive, so it is best to contact CARDS early each semester to access your accommodations. If you are registered with CARDS, please see me to schedule a meeting outside of class in which you can bring me your faculty

notification letter and we can discuss your accommodations for this course. Students are not eligible to use their accommodations in this course until they have met with me. CARDS is located in 101 Altschul. Columbia ODS is located in Wien Hall, Suite 108A.

Affordable Access to Course Texts
All students deserve to be able to access course texts. The high costs of textbooks and other course materials prohibit access and perpetuate inequity, and Barnard librarians are partnering with students, faculty, and staff to increase access. By the first day of advance registration for each term, you should be able to view on Canvas information provided by your faculty about required texts (including ISBN or author, title, publisher and copyright date) and their prices. Once you have selected your classes, here are some cost-free methods for accessing course texts, recommended by the Barnard Library: find out if your faculty has placed the texts on reserve at Barnard Library or another Columbia library, and look for course texts using *CLIO* (library catalog), *Borrow Direct* (request books from partner libraries), *Interlibrary Loan* (request book chapters from any library), and *NYPL*. Students with financial need or insecurity can check items out from the FLIP lending libraries in the Barnard Library and Butler Library and can consult with the *Dean of Studies* and the *Financial Aid Office* about additional affordable alternatives for getting access to course texts. Talk with your librarian and visit the *Barnard Library Textbook Affordability guide*(*library.barnard.edu/textbook-affordability*) for more details.

Wellness
It is important for undergraduates to recognize and identify the different pressures, burdens, and stressors you may be facing, whether personal, emotional, physical, financial, mental, or academic. We as a community urge you to make yourself—your own health, sanity, and wellness—your priority throughout this term and your career here. Sleep, exercise, and eating well can all be a part of a healthy regimen to cope with stress. Resources exist to support you in several sectors of your life, and we encourage you to make use of them. Should you have any questions about navigating these resources, please visit these sites:

• Barnard Students: https://barnard.edu/wellwoman/about

• Columbia Students: http://www.college.columbia.edu/resources Click on Health-Wellness

• Columbia GS Students: https://gs.columbia.edu/health-and-wellness

• Columbia SEAS Students: http://gradengineering.columbia.edu/campus-resources

CLASS SCHEDULE

Week 01 01/13/21	**Design in Everything**

Introduction   Syllabus and Course overview

Lecture   Everything is in Everything

Reading   Vilèm Flusser, "About the word Design" in The Shape of Things (London, Reaction Books, 1999)

       Stuart Reeves, Murray Goulden, Robert Dingwall, "The Future as a Design Problem" from DesignIssues, Vol 32, No. 3, summer 2016

Week 01 01/15/21	**Graphic Design and Publishing**

Project   Introduction - Case Study PresentationsIntroduction

Guest Lecture   Geoff Han + Lars Fischer: Publishing as Architecture

Reading   Ellen Lupton, "LETTER", in Thinking With Type (New York, Princeton Architectural Press, 2004)

       David Reinfurt, Adam, Why Arial, 2009

Week 02 01/20/21	**Design for Bodies**

Lecture   Standardization reconsidered

Field Work   Discussion of readings and lecture

Workshop   Introduction to Adobe Creative Suite

Reading   Ellen Lupton, "Designing for People", in Beautiful Users: Designing for People (New York: Princeton Architectural Press, 2014) 21-31

Week 02 01/22/21	**Non-conforming Standards**

Guest Lecture   Nader Vossoughian: Architecture and Standardization

Guest Lecture   Laurel Lawson: Architecture and Standardization

Project   Case Study Workshop - group work and group critique

Reading   Wanda Katia Lieberman, "The Right to Live in the World: Architecture, Exclusion and the American Disabilities Act" in Spatializing Politics: essays on power and place / Delia Duong

Ba Wendel, Fallon Samuels Aidoo, Ed. (Cambridge: MA, Harvard University GSD)

Week 03 01/27/21   **Future Natural**
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Lecture   Nature is not Green

Virtual Field Trip   Passive House in Mount Tremper

Field Work   Discussion of readings and lecture

Reading   Bill McKibben, "The End of Nature" in the New Yorker, September 11, 1989

Week 03 01/29/21   **Sites Unseen**

Guest Lecture   Lize Mogel - Walking the Watershed

Project   Case Study Workshop - group work and group critique

Reading   Trevor Paglen, "From Cultural Production to the Production of Space", from Experimental Geography (Brooklyn, Melville House, 2009).

Week 04 02/03/21   **The Future as a Design Problem**
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Case Study   Midterm Review - Case Study Final Presentations

Week 04 02/05/21

Case Study   Midterm Review - Case Study Final Presentations

Week 05 02/10/21   **Future of the Built Environment**
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Project   Introduce Project 02: Future Action

Field Work   Discussion and in class exercise

Reading   Mimi Zeiger, "The Interventionist Tool Kit ", Parts 1 and 3 Places, September, 2011, March 2012

Week 05 02/12/21   **Public Phenomena**

Guest Lecture   AL Hu, Rose Fellow, Architecture Lobby

Workshop   Architectural Drawings and Representation

Reading   TBD

Week 06 02/17/21   **Augmented Reality**

Guest Lecture   Beom Jun Kim - Virtual, Augmented and Built Realities

Project   Future Action Workshop - group work and group critique

Reading   TBD

Week 06 02/19/21   **Future Realities**

Guest Lecture   Casey Carter, What is Missing Foundation

Reading   Guy Debord, The Society of the Spectacle,
                                    (Cambridge: MIT Press, 2001):

Week 07 02/24/21   **Future Action**

Project   Future Action Workshop - group work and group critique

Week 07 02/26/21   **Future Action Final Review**

Project   Student Presentations