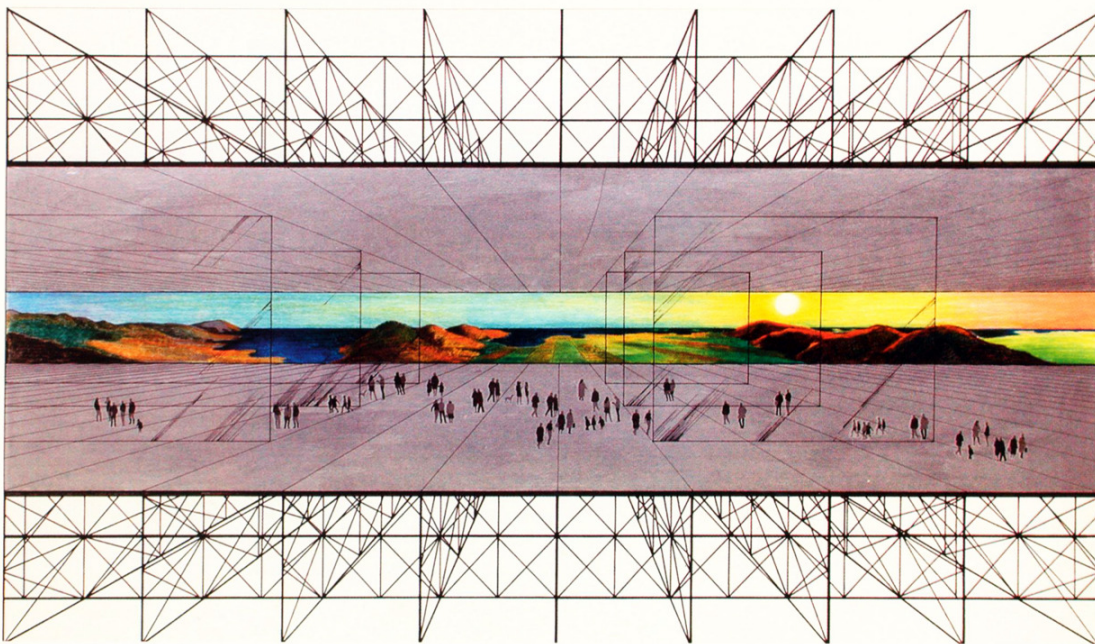B+C | A
Barnard and Columbia Architecture

DESIGN FUTURES: NEW YORK CITY

Barnard and Columbia Colleges Architecture Department
SPRING 2022 ARCH UN1010.01
Friday 1:10 - 4:25 pm (some classes will end at 5:25 pm)
Location: 501 Diana Center, Barnard Campus

Instructor: R. Todd Rouhe
rrouhe@barnard.edu
260 The LeFrak Center, Barnard Hall
Office Hours: 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 will include: instructor presentations, guest lectures, class discussions, student presentations, and pinup/reviews of the design projects.

The course activities and student work 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 analytical capacity and understanding material. One of you weekly journal posts will be based on the readings for the week.

Weekly Journal Post
Each week, students are required to post (2) images on a class Miro board 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. We will set up the Miro board and provide a template for your posts during the first week of class.

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.

Grading
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	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 $50 towards material costs for the final design project and travel.

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

During the first two weeks of the Spring semester, Presentations and Discussions, Workshops and Design Reviews will all occur **remotely, online**.
Starting February 04 Presentations and Discussions, Workshops and Design Reviews will all occur **in person in room 501 Diana Center.**
Once we begin in person classes students will be expected to attend class and participate in person.

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 starts at 1:10pm on Fridays at. 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 required quarantine, 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.

Center for Accessibility Resources & Disability Services (CARDS)
If you believe you may encounter barriers to the academic environment due to a documented disability or emerging health challenges, please feel free to contact me and/or the Center for Accessibility Resources & Disability Services (CARDS). Any student with approved academic accommodations is encouraged to contact me during office hours or via email. If you have questions regarding registering a disability or receiving accommodations for the semester, please contact CARDS at (212) 854-4634, cards@barnard.edu, or learn more at barnard.edu/disabilityservices. CARDS is located in 101 Altschul Hall.

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 01/21/22   **Present Futures**

Introduction   Syllabus and Course overview

Film   Helvetica, dir. Gary Huswit (80 min)

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 02 01/28/22   **Everything is in Everything**

Presentation   Design paths for your future

Project   Introduce Course Design Projects.

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

         David Reinfurt, Adam, Why Arial, 2009

Related   NYC&Co; Infographics; Edward Tufte; Massimo Vignelli - MTA Graphic Standards Manual

Week 03 02/04/22   **New Extreme. De-skilling Design**

Guest Lecture   Geoff Han, Graphic Designer (zoom in?)

Presentation   Changes: Graphic Design + Technology

Project   Digital Workshop 01: Formstorming template

Reading   J Paul Elliman, "The World as a Printing Surface", in Karel Martens: Counterprint (London, Hyphen Press, 2007)

         Experimental Jetset, Short articles on the Future of Print,

Related   Bauhaus; Herbert Bayer; David Reinfurt - A New Program for Graphic Design; Ellen Lupton - The New Basics

Week 04 02/11/22   **Design for Bodies**

Presentation   Standardization Reconsidered

Field Trip   Design and Healing. Cooper Hewitt Museum. 2 East 91st Street
                    (between 5th and Madison Avenues) New York, New York 10128

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

                    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)

Related   ADA; ANSI; Universal Design; Frank and Lillian Gilbreth;
                    Taylorsim; Eadweard Muybridge

Week 05 02/18/20   **Your Bathroom is a Battleground**

Guest   Igancio Galan: Your Bathroom is a Battleground

Project   Project 01 Work Session and Desk Crits

Reading   Barbra Penner, Introduction to Bathroom (London, UK, Reaktion
                    Books)

                    Beatriz Colomina and Mark Wigley, Toilet Architecture from PIN–
                    UP No. 23, Fall Winter 2017/18.

Related   Joel Sanders - https://www.stalled.online/ ; Facility Magazine

Week 06 02/25/22   **Material Ecology**

Field Trip   Tri-Lox Workshop

Reading   The Question Concerning Technology - Martin Heidegger

                    The Soul of a Tree: A Master Woodworkers
                    Reflections - George Nakashima

Related   Paola Antonelli - Design and the Elastic Mind

Week 07 03/4/22   **Material Logistics**

Guest Lecture   Jesse LeCavalier (to be confirmed)

Project	Project 01 Midterm Prep
Reading	TBD
Related	IKEA, Home Depot, Just-in-Time production

Week 08 03/11/22 _____

Project	Midterm Review of Project 01

Week 09 03/18/22   SPRING BREAK _____

Week 10 03/25/22   Reuse, Renew, Recycle _____

Project	Introduce Project 02
Field Trip	MoMA: Reuse, Renew, Recycle - Recent Architecture from China
Watch	Annie Leonard, The Story of Stuff (20 min)

Week 11 04/01/22   Future of the Built Environment _____

Field Trip	Traversing 42nd Street
Reading	Rem Koolhaas, Selections from <u>Delirious New York</u>, 1978 (New York, Monacelli Press, 1994 edition)
	Guy DeBord, <u>Society of the Spectacle</u>, 1967 (New York, Zone Books, 1994 edition)
Related	The Social Life of Small Urban Spaces - William Whyte; Times Square; Midnight Cowboy

Week 12 04/08/22   Living in History _____

Field Trip	Housing in the Lower East Side
Reading	Tony Shuman, "Labor and Housing in New York City"
Related	Triangle Shirtwaist Factory Fire; Modern Housing Types; Gentrification; Center for Urban Pedagogy; Essex Crossing

Week 12.5 04/08/22

Field Trip   Passive House in Mount Tremper, Catskills, NY

Reading   Brian Halweil, "If You Are What you Drink, Gotham is Upstate
                              Rainwater", Published in Edible New York, 2008

Week 13 04/15/22   **Future Natural**

Presentation   Green is not Green

Project   Project 02 Work Session and Desk Crits

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

                              William McDonough and Michael Braungart, "Waste Equals
                              Food", in Cradle to Cradle: Remaking the Way We Make Things
                              (North Point Point Press, 2002)

Related   Reyner Banham; Buckminster Fuller; Sustainable Architecture;
                              Greenwashing

Week 14 04/22/22   **Augmented and Built Realities**

Presentation   Beom Jun Kim - Virtual, Augmented and Built Realities

Reading   https://www.e-flux.com/architecture/software/341382/freestyle/

                              https://www.e-flux.com/journal/00/68457/the-obligation-to-self-design/

Related   Virtual Reality; Jaron Lanier; William Gibson; Computer
                              Modelings; Digital Fabrication

Week 15 04/29/22   **Design Futures Final Review**

Project   Final Presentation Project 02