**ARCH 1060 School of Architecture**

**Introduction to the Designed and Built Environment Georgia Institute of Technology**

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**Credit Hours: 3COURSE DESCRIPTION**

Introduction to fundamental themes and celebrated projects in contemporary architecture through lectures, discussion of theoretical texts, and guest appearances by current practitioners.

Prerequisites: None.

Teaching format: Lectures and discussion.

**COURSE OBJECTIVES**This course is designed to accomplish the following objectives:

1. To establish an interpretive matrix for evaluation of the aspirations, constraints, tools, and choices involved in any design.

2. To model analysis of exemplary cases of contemporary architectural design as intelligent, informed, creative provision of

shelter for human dwelling, starting from a variety of points of departure.

3. To identify and discuss current social and technological trends in the design and construction of architecture.

4. To provide exposure to the scope of design and to identify contexts for the architect’s interaction and collaboration with

other professionals in the realization of architecture.

5. To foster design intelligence that is locally attuned and globally portable.

**EXPECTED LEARNING OUTCOMES***Those students who successfully complete the course will be able:*

*1. To articulate a fledgling design sensibility with ethical and aesthetic components that can be used as a guide to*

*interpretation and creation.*

*2. To begin to analyze designs according to a coherent and holistic methodology.*

*3. To identify and discuss current social and technological trends in the design and construction of architecture.*

*4. To understand the general scope of design and how professionals trained in different disciplines (e.g., architecture, civil*

*engineering, landscape architecture, material science, construction, biology, etc.) can interact.*

*5. To think and create comfortably in the context of the different communities of a diverse world.*

**ASSIGNMENTS**

**Readings**

**The overall structure of the course topics will remain consistent with required readings every term. Since this class will be offered by different faculty, additional selected readings may vary from term to term but would still fit within the proposed course topics.** Readings from the textbooks and other sources are coordinated with the weekly discussion topics. Students should do assigned readings before the lecture or discussion for which they are listed in order to be informed and prepared to discuss ideas in class.

**Design Analyses**

In each third of the class, students will do two capsule analyses of selected works of contemporary architecture, in accordance with the weekly themes. Topics will be offered on a rolling basis, so that students may make choices that align with their interests. The lowest of the six analysis grades may be dropped.

**Synthesis Papers**

At the end of each third of the class, an essay will be required that synthesizes the readings and class material. The final synthesis will be a longer paper drawing on material from throughout the semester.

**REQUIRED TEXTS/READINGS/SPECIAL MATERIALSTexts**There are three required books for the class:

Richard Weston, *100 Ideas That Changed Architecture* (London: Laurence King, 2011)

Marc Kushner, *The Future of Architecture in 100 Buildings* (New York: Simon and Schuster/TED, 2015)

Tim Ingold, *Making: Anthropology, Archaeology, Art and Architecture* (London and New York: Routledge, 2013).

Additional required readings for discussion will be available on the course T-Square site (accessible at <https://t-square.gatech.edu>) under “Resources”. You may download these texts several weeks at a time and print them for free at Central Printing, for pick-up in the Student Center.

**POLICIESAttendance**Attendance at all class meetings is mandatory and crucial to successful completion of the class. During in-class discussions, you will have the opportunity to build your skills of interpretation by practicing them in a low-key setting.

Attendance is the precondition of active participation; together they count for 10% of your course grade. Attendance will be taken at the start of every class meeting (lecture and discussion).

**Grading**All work will be graded on a 100-point system and then weighted according to the following percentages of the final course grade:

Work Weight

Attendance 10 %

5 Analyses @ 10% each 50 %

2 Interim Syntheses 20 %

Final Paper 20 %

The grade scale for all individual components of the course as well as for completion of the final course grade will be as follows:

Points Grade Description90-100 A Excellent 80 - 89 B Good 70 - 79 C Satisfactory 60 - 69 D Passing0 - 59 F FailureThere will be no incompletes awarded without appropriate reason nor if the student has not completed a majority of the work of the class.

**Academic Integrity**Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. For information on Georgia Tech's Academic Honor Code, please see *The Georgia Institute of Technology Catalog* at [http://www.catalog.gatech.edu](http://www.catalog.gatech.edu/index.php). Refer specifically to section 18b entitled “Academic Honor Code” at http://www.catalog.gatech.edu/rules/18b.php for the principles, policies, and procedures governing issues of academic integrity.

Any student suspected of cheating on a quiz or exam may be subject to an oral exam on the material, to be administered by the instructor. Any student caught plagiarizing will be reported to the Dean of Students.

**Student and Instructor Conduct**

For expectations of student and instructor conduct more generally, consult section 19 of the catalog listed above, entitled “Code of Conduct,” <http://www.catalog.gatech.edu/rules/19a.php>, and section 22, entitled “Student-Faculty Expectations,” at <http://www.catalog.gatech.edu/rules/22.php>.

All persons in the classroom are expected to behave with courtesy towards others and in a way that does not interfere with the regular conduct of the class. Cell phones and laptops may not be used in the classroom and should be put away. Anyone who does not adhere to these basic courtesies will be asked to leave.

**Accommodation of Disabilities**

Any student with a disability, that may require accommodation, should contact Office of Disability Services at 404-894-2563 or visit <http://disabilityservices.gatech.edu> to make an appointment to discuss his or her special needs and obtain an accommodations letter. He or she should also schedule an appointment to speak with the course instructor and his or her GTA.

**Emergencies**

In case of emergency (e.g., fire, accident, or criminal act), please call the Georgia Tech Police at (404) 894.2500. Please note that Perry Minyard, IT Support Administrator for the College of Architecture, is also a firefighter and an Emergency Medical Technician (EMT) certified in performing CPR.

**COURSE TOPICS AND SCHEDULE**NB: The schedule given below is approximate; expect some variations.

Schedule and Assignments Key

The course is organized into thirds, with each third ending in a week of synthesis. Each weekly topic will feature class presentation and discussion of four to eight contemporary works of architecture.

R = Required reading

Rec = Recommended reading

Week Topic

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**PRE-DESIGN LITERACY: SOCIO-CULTURAL CONSIDERATIONS**

**1 Persons**

R Howes, “Skinscapes: Embodiment, Culture, and Environment,” 27-39

Howes, “Scent, Sound and Synaesthesia: Intersensoriality and Material Culture Theory,” 161-72

Mauss, “Techniques of the Body,” 77-95

Ingold, “Telling by Hand,” 109-24

Certeau, "Walking in the City," 91-110

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**2 Places**

R Bachelard, *Poetics of Space* [excerpt: “The House. From Cellar to Garret”], 86-97

Cresswell, “Introduction: Defining Place,” 1-14

Casey, “Building Sites and Cultivating Places,” 146-81

Rec Relph, “Space and Place,” 8-28

Cresswell, “The Genealogy of Place,” 15-51

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**3 Communities**

RCasey, “Displacement [excerpt],” 29-39

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**4 Programs**

RLefebvre, “Notes on the New Town,” April96 116-26

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**5 Synthesis**

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**DESIGN LITERACY: CREATIVE CHOICES**

**6 Materials and Assemblies**

R Ingold, “The Materials of Life,” 17-31

Rec Malafouris, “Introduction,” 1-20

Küchler, “Materials and Design,” 130-41

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**7 New Technologies**

R Mitchell, “Lean and Green,” 146-55

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**8 Ecologies**

R Ingold, “Round Mound and Earth Sky,” 75-89

Madge, “Ecological Design: A New Critique,” 328-38

Either: Fuad-Luke, “Introduction,” 8-15

Or: “Product System Life Cycle” and “Ecodesign Strategy Wheel,” 2-7.

Rec Ingold, “Culture, Nature, Environment,” 13-26.

Guy and Farmer, “Reinterpreting Sustainable Architecture,” 140-48

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**9 Building Performance**

R Ingold, “On Building a House,” 47-59

Rec Buchli, “Architecture and Modernism,” 254-66

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**10 Synthesis**

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**PROFESSIONAL LITERACY: WORKING WITH OTHERS**

**11 Collaborations**

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**12 Invention**

R Golsby-Smith, “Fourth-Order Design: A Practical Perspective,”

260-75

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**13 Working across Scales**

R Paul Virilio, "The Overexposed City," 540-50

Mitchell, "Boundaries/Networks," 7-17

Mitchell, “Lean and Green,” 146-55

Rec Picon, “The City in the Digital Sprawl [excerpts],” 171-84, 191-207

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**14 Working for Profit and Not for Profit**

R Boradkar, “Producing Things: A History of Systems of Manufacture” and

“Planned Obsolescence: Unsustainable Consumption,” 103-25, 179-210

Rec Miller, “Consumption,” 341-54

Verbeek and Kockelkoren, “The Things That Matter,” 83-94

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**15 Synthesis**

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