**Fundamentals of Urban Planning and Design**

Professor: Anton C. Nelessen  
Office Phone: 848-932 2809

Fall 2017  
Thursday 1:10 to 3:40  
EJB 369  
Teaching Assistant:  
Susana Gonzalez  
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*Bring your drawing equipment including the engineering scale, pencils and straight edge and one roll of 18 and 36 inch tracing paper next week. Tracing paper can be shared*

34 970 600  12 graduate students as of August 14  
34 971 404  14 Undergraduate students as of August 14
Fundamentals of Urban Planning and Design

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This class is designed to insure that students have foundation in the basics of Urban Planning and Design.

The learning goals for this course are the following:
- Expose students to a wide range of cities that through their actions have implemented a healthier, sustainable, resilient life style. [Expand general planning knowledge]
- Expose students to a wide range of good city form, mobility and nature integration options, including, pedestrianism and transit, mixed-use housing and other building typologies, parks, plazas and gardens. [Expand general planning knowledge]
- Prepare students to understand the planning procedures, policies and design implementation that will make cities more healthy and sustainable. [Expand general planning knowledge]
- Prepare students in the fundamentals of urban planning and design in suburban and urban settings
- Prepare planning students to be able to converse with other professional disciplines liked landscape architects, architects, other planners, engineers, developers etc.
- Prepare students to understand the current impediments to implementing healthy sustainable cities in the future.
- Prepare students to make convincing and graphically interesting presentations. [Expand planning skills]
- Create a class environment that encourages personal interactions and expands personal contacts.

You are a new generation who thinks and acts differently about the places you know. You have a new set of media influences, new peer pressures in an every fast paced technologically world with changing climate, population increases, mobility patterns,
generational preferences, income disparities, with political and religious implications. You have expectations for the places you wish to live after graduate school and thereafter in your life given the increasing cost. You as a planner/designer will also be responsible for major land use decisions that will impact the future in a profound way. You live in a time of increased national and state debt, global warming and a desire for a society and culture that is more sustainable and resilient.

As someone who is interested in Urban Design and Site Planning, testified by the fact that you have enrolled in this course, you have the opportunity to influence the physical character of the future as it has already influenced your past. All of us must come to realize and understand our personal “biography of the past - the social, economic, technological, peer, media and spiritual forces that have shaped our past and will shape our future in a more powerful and profound way. Armed with the understanding of these forces, combined with basic tools and skills you will learn in this course and a refinement of the three and four dimensional manifestation of those places and communities that you find interesting and “awesome,” you can be part of forging a future vision for future urbanism and directly impacting the visual and spatial character of place. Each of you will find your role and your specific contribution to a better world and I know this course set the foundation.

All good urban planning inevitably directs itself to built urban form, to the accumulation of wealth, social capital and sustainability. Good design increases wealth over time. Mediocre design is normative and typically value engineered. The lack of design creates places that are negative and depressing and economically unsustainable places over time. Good design creates wealth and a sense of pride now and in the future. There are rules to good design.

Many people will say that the quality of what gets built is based on the market, including factors such as location, income, jobs, availability of land etc. (who is buying –what and where) construction costs and purchasing power. Most market analysis is based on what sold yesterday not on the characteristic of place that people want tomorrow. Good design is about creating the new product within the income and locational parameters.

A fundamental understanding of plans and the impact of built form on life quality is imperative. How we feel and respond to the built environment has much to do with the visual and spatial characteristics of place, the sense of enclosure and proportion combined with generational conditioning i.e. your attitudes, beliefs modified by normative behavior and your motivation to comply with external conditioning. People of different ages, backgrounds, and training think differently. They have different visions for the future. Some visions are positive, some accept what is, and others are negative or don’t believe that their input makes a difference. Let me try to convince you that you can make a difference through design and your attitude towards design. The intention of this course is to understand and master the fundamentals of physical planning to insure that you can partner with architects, engineers and other planners, with knowledge and understanding of the physical components of urban planning.
This course has been designed for those students who must have an overview, fundamental understanding and skills to design streets and building forms, public spaces and sequences, lot layouts and site plans. They must have an understanding of standard and form-based zoning to the improving the character and quality of the places we live, work and play.

My involvement over the past forty+ years with developers, land owners, planning boards, town councils, architects, engineers and planners all over the country and the world suggests that physical design and the impact of good design is not commonly understood. Function is understood, aesthetics and the emotional response to places and places is not, in most instances. Most interested citizens, and most planning board members do not and cannot "read" or are able to translate a two-dimensional plan into three-dimensional reality on their own. Because of their lack of training and inability to vision, few understand that spatial definition and positive visual quality can be planned for, designed and built based on a positive vision. Too many people who sit on boards, run state and federal organizations, even with the best intentions, become bureaucratically involved in translating the existing zoning rules without really thinking about if they are appropriate or not for the place intended, or if they will create the most positive place now and in the future. Are they in the long term positive or destructive?

There is little cognizance of the wealth that could be created through quality urban design, that is the visual, spatial and activity characteristics between the buildings. By focusing only on “value engineering”, great opportunities for wealth prorogation disappear, opportunities for sustainability disappear and the average and banal emerge. Therefore, it is imperative that quality urban design needs to be understood and visualized. But this will not be realized if the physical planners do not have the necessary, fundamental understanding of how buildings, streets, public spaces are dimensioned and function.

For each week there are assigned reading to parallel the assignments. Students will be called on at random to respond to the readings to answer the fundamental question: How do these reading contribute to the art and science of urban planning and design?

Site Design (definition)

"The art and science of the two, three and four dimensional spatial arrangement, location and placement of buildings and structures, streets, roads, and movement systems, infrastructure and landscape elements, on the land, in harmonious and positive relationship to the human scale and the natural environment, in order to create and enhance a positive sense of community and , neighborhood, personal well being, quality of life and sustainability. .... Nelessen
Urban Design (definition)

"The act of generating plans and diagrams that specify the location of buildings, streets, parks and public spaces that create well-proportioned three dimensional spaces between the building street wall containing the pedestrian realm, the movement networks, public spaces and activity areas that are higher in density and intensity that more suburban and rural locations .... Nelessen

The course will introduce or reintroduce scales (for those of you who have and have not basic familiarity) along with the basic graphic techniques necessary in order to prepare, communicate and "read" site plans, site data, and other three dimensional visual qualities.

The course will use the following techniques to expose students to good and bad design: Audio visual presentations, “Hands on Models” (invented by A. Nelessen), place simulation, reading assignments, class presentations of site plan and design proposals and infield assignments. The course will include both rural, suburban, and urban case studies and problem areas. Many components of site design will be explored including the land use, zoning, density, holding capacity, soils, geology, ecological factors influencing the location of structures, buffers, landscaping, scale, visual analysis and design vocabulary.

Much of the work in this course will revolve around the basic buildings' blocks of town planning starting with space and place, the street, the block, the neighborhood/village the town and then then urban buildings, thoroughfares, transit, and redevelopment.

The course will be divided into four “modules” paralleling the Transects with the S, M, L and ExL urban from concepts. For each we will explore the following

Precedents
Building types
Street, paths, mobility forms/types

This course will be an ideal prep course for future classes like Urban Planning and Design II, Land Planning, Transportation Planning, Urban Redevelopment and the Studios.

GRADES: Your grade for this course will be based on the following breakdown:

Written assignments and quizzes 15%
Graphic /design assignments 50%
Final hand book 35%

All assignment will be graded from 0 to 100 points.
Grade distribution based on average
92 to 100 points A
86 to 91.9 points B+
81 to 85.9 points   B  
75 to 80.9 points   C+  
70 to 74.9 points   C  
70 points or lower   F  

For the graphic and written assignments, I will be looking for an understanding of the principles, the correct design intent and the ability to communicate in oral, written and graphic form. Assignments that receive low marks can be redone and resubmitted for higher grade up to two weeks before the end of the semester. The new grade will be averaged with the old grade.

All assignments are due as stated in the Assignment handouts. It is absolutely imperative that assignments be handed in on time. No excuses unless approved by Professor at the time of assignment. Late assignments, will be graded as normal and than reducing 50% after the first week, 75% the second week and 90% after the third week. I hate grading late assignments because it means that you are behind and not keeping up with the class educational progress. To be late with an assignment you must have an outstanding excuse!

CONTACT
Email nelessen@rutgers.edu with any questions or clarifications. Allow 24 hours for reply.
Office hours will be set by appointment

ATTENDANCE/Absences
Per Rutgers University policy, all students are required to attend all classes during the semester, including those where other students are making presentations. According to new university regulations, students missing a class for any reason are required to notify the instructor in advance and to report the date and specific reason for their absence on the new university attendance website: https://sims.rutgers.edu/ssra/. The Rutgers reporting system then automatically sends an Email to me. Rutgers University now requires us to include this absence reporting requirement on all course syllabi.

Class attendance is mandatory- no unexcused absence except with approval of instructor at least one day before the class. Every day missed without approval removed 2 points from your final cumulative grade

Academic Integrity
Please review the University’s Academic Integrity Policy http://academicinterfirty.rutgers.edu/integrity.shtml
You cannot use someone else’s intellectual property without proper attribution. Plagiarism will not be tolerated and will result in breach of academic integrity and potential dismissal from the university.
Required Readings

Visions for a New American Dream: Process, Principles and Ordinance to Plan and Design Small Communities, by Anton Nelessen
CNU Charter- Printout provided

Other assigned readings from What People Want will be posted on Sakai

Recommended: The Death and Life of Great American Cities, by Jane Jacobs

Graphic Equipment Required

6 Number Two pencils
1 Engineering Scale – not architectural
1 24-inch roll of white tracing paper
1 roll of Scotch removable tape
1 soft eraser
1 24 inch T square or a rolling parallel rule
1 30 to 50 foot measuring tape
1- Set of Crayola markers – minimum eight color

In addition you will need access to a digital camera or a devise for transfer into Indesign, Powerpoint or some movie formal.

The focus of the course for the majority of the course will be first on conceptual hand drawings. For those of you with AutoCad experience, the last assignment can be submitted in CAD, Sketchup or Rino.
Final book must be in Indesign.
COURSE SCHEDULE
(Subject to change based on class discussion, reviews, time overruns etc.)

The overall course requirement is to prepare a reference book that can be used in your future courses and professional career. It must have a cover, your picture and cv in the front, table of contents and each of the design assignments. It is due December 14.

WEEK ONE  September 7
Introduction to Course
+ Introduction: Fundamentals of Design for Land, Streets, Mobility, Buildings, Hamlets, Neighborhoods, Blocks, Towns and Cities
The need for new urbanism in urban design and site planning standards in the rural, suburban and urban settings
+ In-class questionnaire – demographics, exposure and influences
+ Review of student’s backgrounds and responses to questionnaire
+ Focus Group Exercise

LECTURE/Presentations:
+ Sequence 01. What constitutes great urban design?
+ Genius Loci- Introduction to Professor’s design philosophy, with five propositions and four urban design principles as well as examples of professional work.
+ Introduction to World Cities – Lessons for American Cities: The Six Unassailable Urban Design Characteristics

Reading Assignment for the week
Charter of the Congress for the New Urbanism.
(on sakai) VISIONING WHAT PEOPLE WANT: Understanding the Human Emotional Responses to Places and Spaces: A Guide for Positive Urban Evolution
Introduction to Visioning pp 20-31
Definitions
The Mind, Vision and Design

WEEK TWO – September 14
+ Spot Exam: Six Unassailable Characteristics, Charter and Genuis Loci and reading assignment

Understanding your Intuitive and Emotional Responses as a Basis of Future Urban Planning

LECTURE/Presentations:
+ The Past, Present and Future of Urban Planning Design. video
+ Understanding your visual, spatial, emotional responses to spaces and places
Planning and Design Assignment for Week Two:
Draw on and 11x17 sheet, a sketch site plan, in pencil of the assigned images to test your translations sketch ability. The sketch site plans must illustrate the location of the buildings, streets, curbs sidewalk, landscaping, lighting and any other features of the image.

Reading for this week. ON SAKAI
- Measuring Feelings and Aspirations
- Places Evolve Over Time in a Progression of Phases
- Perceived Character of Existing Places – Why are Most Places Perceived as Negative, Ugly and Unhealthy?

For next week - 1- 36 inch roll or tracing paper
1- 12 to 18 inch roll of tracing paper

WEEK THREE – September 21
+ Spot exam on readings

Introduction to the Transect and the Concept of S, M, L, and XL – Defining a common nomenclature
LECTURE/ Presentation:
+ Transect Defined
+ Transect Described
+ Transect test

Planning and Design Assignment “A” for Week Three: (Individual assignment) From the internet or other sources download two images of each transect with a brief explanation of character including density, thoroughfare sections and rights-of-ways, building form, open space etc. This is due next week in print form using word or In-design as the introduction of your workbook. Be sure to source your images!

LECTURE/ Presentation:
+ Introduction to Site Plans – Scale, Site Boundaries, ROW, Graphics
Appropriate graphic terminology will be demonstrated in class

Planning and Design Assignment “B” for Week Three: (Team of two) T-1 Site
Prepare a sketch site plan in pencil on sketch paper for a site of 15 acres at a scale that will fit on a 36 inch sheet of tracing paper for a T-1 areas for conservation and preservation. For the site indicate the border of the site in a dot/dash line with a narrow country road with a ROW of 20 feet on one edge of the site. Required for this and every drawing is your name(s), graphic scale, north arrow.
30% of the site is a pond with a small stream entering and leaving the pond
An additional 20% of the site is wetlands surrounding the edges of the pond and the stream
50% of the site is forest

What are the appropriate zoning and uses of the site? Notate these directly on the sketch site drawing. Required for this and every drawing is your name(s), graphic scale, north arrow.

Planning and Design Assignment “C” for Week Three: (Team of two) T-2 Site
Prepare a sketch site plan with the following features on a site of 15 acres at a scale of 1 foot equals ??? For the site indicate the border of the site in a dot/dash line with a country road with a ROW of 28 feet on one edge of the site
10% of the area in wetlands with a small stream
20% of the area in forest
70% of the area is an open field
On this T-2 site prepare a site plan for one agricultural/farm estate.

Reading for this Week on sakai
Visions for Natural Areas
Visions for Rural Areas

WEEK FOUR September 28
+ Submit Transect Images
+ Pin up T-1 site drawing and potential uses
+ Pinup T-2 site plan for agricultural farm estate for review

-STREETS Urbanism’s most important public space.
Streets are fundamental framework of all urban design its building wall and spaces
It is the image and view from the street that forms the primary impression of place

LECTURE/Presentation(s):
+ Great Urban Streets

In-Class Planning and Design Exercises
+ Fundamental of Walking
+ Pacing- understanding your dimensions
+ Pacing and sidewalk and street measurement exercise
Understanding the pedestrian dimensions and movements

LECTURE/Presentation(s):
+ Sidewalk Sections

In-class drawing and design exercise:
Draw the following sections:
Draw as section through a sidewalk along a commercial edge to accommodating enough pedestrian space with trees of 4 inch caliper? Draw sidewalk wide enough for one (1) person; two (2) persons side by side, three (3) persons side by side, four (4) persons side by side, eight (8) people side by side along a commercial edge with the appropriate streets curbing including trees, landscaping, lighting, landscaping.

Lecture Presentation(s):

+ Bicycles Considered Normal video
- How much space is required for one lane bicycle path, one way, two way?
+ Thoroughfares

Planning and Design Assignment for Week Four: (Individual Assignment)

Assignment “A” Thoroughfare types and Mobility Options
In section and plan draw the following basic urban thoroughfare types to accommodate, cars, parking, bicycle paths, sidewalks with streetscaping that define the right of way for each:

- RR Rural Road
- ST – Two way Street
- ST – One way Street
- PED STREET Pedestrian Street
- AVE Avenue
- BLV Boulevard
- RES-Lane Residential Lane
- COMM-Alley Commercial Alley
- S BLVD Super Boulevard

LECTURE/Presentation(s):

+ Block Patterns
+ Venice – Enhanced Pedestrian Experience Video

The urban block is the fundamental structure for all urbanism. It can have multiple configurations. The urban block is typically configured using the center line of the street type. They can have multiple shapes, fundamentally based on four building walls. Blocks frame the essential edges of the building wall. They frame the most important public spaces, vistas, plazas and landmarks. Most American urban city centers have one or more configurations of the block. The smaller the block the more walkable. e.g. the Portland block is 220 by 220 (very walkable), the NYC gridiron block is 200 by 600 nice streets (not very walkable in the long dimension). Block are surrounded by one or more street/thoroughfare types which generate the visual proportions of the street.

Assignment “B” Using three of the above street types, design two eight block patterns. Design the blocks to provide four visual terminations and two inflection or deflections.

Readings for this week. On Sakai

Influence of Thoroughfares,
Influence of Cars
WEEK FIVE – October 5
+ Review Street Sections and plans

Scale of time and place. The Reintroduction of the Human Dimension of Mobility in a Car Dominant Urbanism.

+ LECTURE/ Presentation(s):
  + “Toulouse- A City Center of Shared Streets”
  What are the most appropriate and likable street proportions?

Planning and Design Assignment “A” for Week Five : (Individual Assignment)
Draw in plan, section and axiometric, three street types as shared streets – primarily pedestrian, bicycle, service vehicles at certain times of day, taxis and limited personal vehicles with no parking.
  Shared Street-Small
  Shared Street- Medium
  Shared Street - Large
  Complete as much as possible in class. Submit all drawing as photocopies for next week

Lecture Presentation(s):
  Transit Cities, video

Planning and Design Assignment “B” for Week Five : (Individual Assignment)
Draw in plan, section and axiometric, three street types as transit streets using a narrow gage street car, a typical light rail section and a BRT.

+ Lecture Presentation(s):
  The Transit Transects, video

Planning and Design Assignment “C” for Week Five : (Team of Two or three)
Using GIS or an aerial view of an urban area with a train station, delineate the three transit Mobility Transects-MT-6, MT-5 and MT-4

Reading Assignment for this week On Sakai
  Visions for Mobility

WEEK SIX – October 12 -
+ Review assignments A, B and C+ Discussion of readings

Introduction to Small (S) and Medium (M) Building Types
Lower density buildings and development in T-2 and T-3 - The Agricultural Hamlet – antidote to urban sprawl

LECTURE/Presentation
+ Introduction to “hands on models” - + Single Family, town houses, mixed use
+ Building Sections and axiometrics

Planning and Design Assignment “A” for Week Six: (Individual Assignment)
Draw in sketch plan, section and axiometric the following building types:
    Single Family
    Townhouse – single
    Duplex townhouse
    Small mixed use – live work

LECTURE/Presentation
+ Understanding the Site and Site Design
    Boundaries from tax maps and/or out bound survey
    Topography typically in two foot contours
    Soils and Geology analysis;
    Ecological/Vegetation analysis
    Adjacent development or land uses
    Development suitability
    Existing structures roads etc.
    Street typologies- rights of ways
    Zoning regulations
    Traffic/levels of service

Building types
Pedestrian and vehicular access
Orientation
Sense of neighborhood
Plans and elevations
    Residential
        Size and type
        Lot Area
        Building envelope
        Yards
        Encroachments
        Parking
        Public and semi-public spaces
        Heights

Program/ market feasibility
Concept Design
Preliminary Design
Planning Board Approvals
Costs Lot cost, improvements, Lot to house (2 to 5x lot cost)
        Construction $200 to $350 per sq ft
Marketing Plan
Planning and Design Assignment “B” for Week Six: (Team of two)
Prepare a sketch site plan using the “Hands-on models” and the small and medium building types to design a typical sprawled subdivision for 15 acres zoned for suburban residential and commercial. Site is attached to an existing 50 feet right of way. Zoning for the site required one acre lots (with a minimum frontage of 175 feet, setback of 50, side yards a minimum of 20 feet, rear yard of 40 feet. 120 x 120 feet of the site has been cut out for strip commercial. e.g. McD, gas station etc. Internal streets require a 60 foot ROW. Required is a sketch illustrated site plan and development program. A detention pond is required.

WEEK SEVEN  October 19th
+ Review small and medium building types
+ Review suburban sprawled site plan

Suburban Site planning and Introduction to the Agricultural Hamlet
LECTURE/Presentation
Agricultural Hamlet Video
Principles of Good Urban Neighborhoods

Planning and Design Exercises for Week Seven (Team of Two)
Prepare a site plan using the hands on models. Use the same site as the one acre single family subdivision, design an Agricultural Hamlet using the number of lots from the “sprawled” site plus additional 25% above the original number of units transferred using the new transfer cluster provision. In this scenario there is no cut out for the strip commercial. Generate an illustrated colored site plan, and development program.
Visions for a New American Dream: Process, Principles and Ordinance to Plan and Design Small Communities, pp 99 to 134

WEEK EIGHT – October 26
+ Pin up site plan for Agricultural Hamlet
+ Peer group review

Town Centers Design- “building a better burb”
LECTURE/Presentations: Village and Town Center Planning and Design
Robbinsville Town Center, Robbinsville, NJ
Bayfront, Jersey City, New Jersey

Planning and Design Assignment for Week Eight: (Individual Assignment)
Prepare a response of no longer than two pages, summarizing the design principles inherent in each of these plans. One is built, one is approved and the third is in litigation. Due next week
Reading Assignment for this Week- on Sakai
Visions for Small Towns, their Cores and Neighborhoods

WEEK NINE  November 2
+ Review paper and principles- class discussion

Two, Three and four dimensional scales using (M) and Large (L) Building Types
LECTURE/ Presentation:
Urban Housing types

Planning and Design Assignment for Week Nine: (Individual Assignment)
Urban Planning and Design Exercise “A”: Building mass and scale using two wooden blocks at the scale of 1 inch equals 40 feet. Draw isometric of one building to scale with trees and people.

Urban Planning and Design Exercise - “B”
Designing public space. Using four building blocks at one inch equals 40 feet, how many spatial combinations can you design. Draw in plan and axiometric (5 spaces - low spatial imagination, 10 spaces average spatial imagination, more than 10 spaces, good spatial imagination)

With a colored pencil diagram a potential moving walking sequence into an out of the space(s) designed. Define the space with a circle.

Discussion: What is the difference between a public space and a place?
What makes a public place? A public space and the public social activities must function together to make a place successful.
What is a shared public space?

Urban Planning and Design Exercise “C” Sequence, Visual Termination and Landmarks
Using ten building blocks, how many spatial combinations of a public space can you design. Draw them in plan and axiometric. With a colored pencil diagram a potential moving walking sequence into an out of the space(s) designed. Notate visual terminations and landmarks with asterisk. Was the sequence interesting?
Discussion: What are the most acceptable proportions of a good public place? Who created the most interesting sequence?

Assignment: Complete as much of this in class, complete the remainder and present your sketches next week.

WEEK TEN November 9
+Review axiometrics, sequences etc. for design exercise A, B and C.

Urban Cores and Large (L) and Extra Large (ExL) Building Types

Lecture/Presentation:
+Understanding the Slab and Tower Buildings
+Slabs – Chicago-Rotterdam
+Dubai Tower

Planning and Design Assignment for Week Ten:
Building typologies for redevelopment in T5 and T6. The slab and the tower
Understanding the urban building typologies: the slab-mixed and single use.
Slab - single loaded 5 stories
Slab - double loaded  3 stories  
5 stories  
8+ stories  

**Urban Planning and Design Exercise “A”**  Plans and sections of building types at 1”=40 feet  
(Individual Assignment)  
Draw in plan the unit layout of a “L” shaped four over one (5 stores) slab mixed-use building  
with retail on the ground floor and residential units above. Draw two floorplans, the ground  
floor and a typical upper floor - (illustrating stairs and elevators, halls and entrance) and one  
upper floor. Provide a sketch section and axiometric.  

- What is the appropriate number and location of stairs and elevators? What are their  
dimensions?  
- How have you treated the roof?  
- Why do residential building require a semi-public edge and commercial buildings do  
not?  
- What is the design difference between a single use and mixed use building?  

**Urban Planning and Design Exercise “B”**  
Understanding the urban building typologies: the residential and commercial tower. (Individual  
Exercise)  
What is the appropriate dimension of a residential tower? A commercial tower?  
Draw in plan (units, stairs and elevators, halls and entrance), section and axiometric the  
following urban building types with the ground floor as an amenity floor?  
- Residential tower  
  - 8 stories  
  - 12 stories  
  - 20 stories  

**Urban Planning and Design Exercise “C”**  
Draw in plan with stairs and elevators, halls and entrance), section and axiometric the following  
urban building type  
- Commercial Tower  
  - 20 stories  
  - 40 stories  

**Urban Planning and Design Exercise “D”**  
Draw in plan with stairs and elevators, halls and entrance), section and axiometric. A 30 story  
mixed use Commercial Tower with retail on the lower three floors, offices for the nest 17  
stories and residential on the top 10 floors.  

All drawings due next week  

**WEEK ELEVEN**  
November 16  
+Review Drawings from A, B, C and D  

*Urban Redevelopment and Infill* —Understanding urban parking.  
LECTURE/Presentation(s)  
+ Parking types
Planing and Design Assignment for Week Eleven: Types of urban parking.
(Team of no more than two - must have same graphic format!!)

Draw in plan and section the following parking types:

- **Urban Planning and Design Exercise “A”** On street parking - parallel and diagonal - select one of your street types.
- **Urban Planning and Design Exercise “B”** Layout the parking under a 60 to 62 foot wide “L” slab building. This building type is recessed into the ground by 4 feet. Draw the plan of the units and the plan of the parking immediately below with the access ramps from one of your street types.
- **Urban Planning and Design Exercise “C”** Draw the parking layout for podium parking for a mixed use building of 20 stories with retail and amenities on the ground floor, four level of parking and residential above. What is the layout of the access and egress ramps?
- **Urban Planning and Design Exercise “D”** Most difficult... Embedded parking is parking located in the center of a block surrounded by buildings forming a courtyard. Typically the roof of this type of parking is a green roof with units having either direct access to the roof or look down on it. This is the most complicated type of parking with the units immediately surrounding the parking floors being single loaded, (see your single loaded slab building). For this parking type draw a plan of one typical floor and the surrounding single loaded slab buildings.
- **Urban Planning and Design Exercise “E”** Much new parking in the best livable urban areas are located under major and minor public plazas. Using plaza dimensions of 185 by 300 feet, design the parking layout including the columns using a 30 x 60 foot on-center grid. Provide for an access and egress ramp.
- **Urban Planning and Design Exercise “F”** Remote parking structure. Design in plan and section the layout of a 6 story parking structure which is located adjacent to a street car line stop. The entire parking structure must have a capacity of 1,000 cars with ground floor retail and surface adjacent to the street car stop.

This is certainly not all the parking types but provides the basics.
Complete as much as possible in class. Submit all drawing next week.

**Reading Assignment for this week**

*Influence of Parking*
WEEK TWELVE – November 21  (CHANGE OF CLASS TIMES)

Urban parks, plazas, galleries and green roofs

LECTURE/Presentation:

- Social life of Small Urban Spaces video
- Highline + other public spaces video
- Parks S,M, L Paris

Planning and Design Assignment  for Week Twelve: Public Spaces

Urban Planning and Design Exercise “A” Internet search of public spaces

Download from the Internet (properly sourced) what you consider to be positive, interesting and interactive public spaces in the following categories- make a powerpoint presentation:

- Large public spaces
- Small public spaces
- Interactive green Roof
- Gallery/arcade

Complete and be prepared to present next week

WEEK THIRTEEN November 30

Urban Redevelopment and Infill

LECTURE/Presentations:

- The Redevelopment/Rehabilitation Process,
- Urban Evolutionary Spiral
- Area in Need
- Public participation- Visioning - VPS
- Susceptibility to Change Analysis

- Urban Planning and Design Plans
  - Roswell East, Roswell, Georgia
  - Camden Model
  - Journal Square Redevelopment - video
  - Journal Square presentation - Part 3

Reading Assignment for this week

Visions for Urban Cores

Planning and Urban Design Exercise  (Maximum team of 3) - complete for next week

A client has commissioned our office to prepare a sketch sit plan with a development program. It has been assigned to multiple teams with one or more concepts selected for further design. The client wants to know what can be constructed on this site and how it will look. It is in an area designated for rehabilitation. The city is open to multiple recommendations from which they will prepare a form based code. You and your team are given one week to prepare a sketch site plan for urban infill. Using the provided base map, with its susceptibility to change analysis complete, and using the basic building types – slabs and towers (60 foot wide slabs and 90 foot square towers) design the infill urban design plan. The location is in a T-5 area adjacent
to the core of this medium sized town. The building on the adjacent blocks range from 2 to 4 stories. The plan is to include an illustrated site plan, axonometric, one or more perspectives and a development program. The plan shall contain one park, and one transit stop (bus) with appropriate street/thoroughfare types, parking, sidewalks and landscaping and streetscaping.

**WEEK FOURTEEN  December 7**
+ Presentation and evaluation of blocks
+ Peer group review

**WEEK THIRTEEN  December 14**  *Submit Reference Book with final site plan*