# CITY & REGIONAL PLANNING: SMART CITIES, MCP

The Master of City Planning core curriculum encompasses the basic skills and knowledge required of all planners regardless of their specialization, and is a hallmark of our cutting-edge and practical approach to educating city planners. Students who complete the core will understand the legal and historical basis of city planning; they will know how to use a wide variety of population and economic data to understand local communities; and they will understand the form and arrangement of cities and metropolitan areas around the world. Most important, they will understand which planning approaches work best in which contexts and circumstances.

Today’s combination of portable-yet-powerful computing and communication devices and Internet-accessible “big data” are democratizing all aspects of urban planning and decision-making. In the process, these factors are transforming planners from central information gatekeepers into bottom-up enablers who are helping city dwellers take better advantage of the opportunities and richness of urban life. By giving constituents quick access to usable information, these new technologies are connecting planners, residents, businesses, and nonprofits to make them smarter and more productive. The purpose of this concentration is to give MCP students the skills and abilities they will need to develop planning applications that seamlessly combine user-friendly data retrieval and modeling procedures with individual and collaborative urban planning and design tools.

For more information: https://www.design.upenn.edu/city-regional-planning/graduate/program

## Curriculum

A total of 18 course units are required for graduation. 15 course units must be in City Planning (CPLN) courses.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPLN 500</td>
<td>Introduction to City Planning: Past, Present and Future</td>
<td>1</td>
</tr>
<tr>
<td>CPLN 501</td>
<td>Quantitative Planning Analysis Methods</td>
<td>1</td>
</tr>
<tr>
<td>CPLN 502</td>
<td>Urban Redevelopment and Infrastructure Finance</td>
<td>1</td>
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<tr>
<td>or CPLN 509</td>
<td>Law of Planning and Urban Development</td>
<td></td>
</tr>
<tr>
<td>CPLN 600</td>
<td>Planning Workshop</td>
<td>2</td>
</tr>
<tr>
<td>CPLN 7XX</td>
<td>Planning Studio</td>
<td>2</td>
</tr>
</tbody>
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### Spatial Analysis Requirement

Select one of the following: 1

- CPLN 503 Modeling Geographical Objects
- CPLN 632 Modeling Geographic Space
- ENVS 541 Modeling Geographical Objects

### Breadth Methods Requirement

Select one of the following: 1

- CPLN 504 Site Planning
- CPLN 505 Planning by Numbers

### Smart Cities Requirements

**Required Courses**

- CPLN 592 Public Policy Analytics 1
- CPLN 591 INTRODUCTION TO SMART CITIES 1
- CPLN 505 Planning by Numbers 2 1
  - or CPLN 671 Spatial Statistics and Data Analysis

### Concentration Electives

Select one of the following: 1

- CPLN 670 Geospatial Software Design
- CPLN 692 Java Script Programming for Planners and Designers
- CPLN 675 Land Use and Environmental Modeling
- CPLN 571 Sensing the City

Other SMT-related course with permission of advisor

### Total Course Units 18

1 Smart Cities students who take this course in place of CPLN 503 in the core must take an additional Smart Cities elective.

2 Students who take CPLN 505 to meet this requirement may NOT use it to meet the Core Breadth Methods requirement.

## Internship Requirement

Because a planning education extends beyond the classroom, all MCP students are required to complete a planning internship, usually between their first and second years. Internships may be paid or unpaid, for at least six weeks. Internships can be completed at any government agency or commission, private consulting firm, or non-profit or advocacy organization involved in planning practice, or research.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2021 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.