

# SPECIALIZATION IN TRANSPORTATION PLANNING

|                    |           |
|--------------------|-----------|
| Electives          | 2-4       |
| <b>Total units</b> | <b>72</b> |

## Program Learning Objectives

1. Identify and articulate the range of issues and problems associated with urban transportation.
2. Identify the primary analytic methods used in urban transportation planning.
3. Identify the ranges of solutions and policy options used to address the problems and issues associated with urban transportation.
4. Identify and articulate the key issues that drive transportation policy.
5. Understand driver behavior, traffic characteristics, traffic operations, highway capacity and level of service, and operational considerations for the design of traffic facilities.
6. Articulate the interdependency between transportation and land use.
7. Develop travel demand forecasts and analyze transportation models.
8. Estimate the impacts of changes in land use and transportation infrastructure in terms of various performance measures.
9. Formulate a plan to achieve sustainability goals through transportation system planning

## Required Courses

### First Year

|         |  |   |
|---------|--|---|
| CRP 501 | Foundations of Cities and Planning           | 4 |
| CRP 504 | Sustainable Communities                      | 4 |
| CRP 510 | Planning Theory                              | 4 |
| CRP 512 | Introduction to Visual Communication and GIS | 4 |
| CRP 513 | Planning Research and Analysis               | 4 |
| CRP 516 | Demographic and Analytic Tools               | 4 |
| CRP 525 | Plan Implementation                          | 4 |
| CRP 553 | Project Planning and Design Studio           | 4 |

### Second Year

|         |   |   |
|---------|---|---|
| CRP 518 | Policy Development                        | 4 |
| CRP 530 | Planning Agency Management                | 4 |
| CRP 535 | Land Use and Planning Law                 | 4 |
| CRP 552 | Community and Regional Planning Studio I  | 4 |
| CRP 554 | Community and Regional Planning Studio II | 4 |

Select one of the following options: 4-6

|         |  |  |
|---------|--|--|
| CRP 556 | Community and Regional Planning Studio III (4) |  |
| CRP 596 | Professional Project (2, 2, 2)                 |  |
| CRP 599 | Thesis (2, 2, 2)                               |  |

## Required Specialization Courses

|           |                                 |   |
|-----------|---------------------------------|---|
| CRP 435   | Transportation Theory           | 4 |
| CE 527    | Sustainable Mobility            | 4 |
| CE 523    | Transportation Systems Planning | 4 |
| or CE 421 | Traffic Engineering             |   |

## Advisor Approved Electives