EDP

Environmental Design, Policy, and Planning

EDP 301 The Built Environment I

The functional determinants of an urban region’s physical infrastructure, encompassing cities, suburbs, exurbs and satellite communities are presented. The course will cover metropolitan infrastructure components including systems of transportation, water supply, waste disposal and energy distribution and how they are shaped by the interaction of economics, politics and planning practice.

Prerequisite: SBC 200
3 credits

EDP 302 The Built Environment II

The functional dynamics underlying the development and planning for structures and facilities in urban regions are presented including their cities, suburbs, exurbs and recreational satellite communities. The course will cover the interaction of real estate economics, politics and good planning practice as they affect residential, commercial, educational, cultural and industrial sites.

Prerequisite: EDP 301
3 credits

EDP 303 Spatial Economics

Economic theories and empirical data that explain the distribution of man-made activities in geographic regions are presented. The course emphasizes spatial patterns among and within urban regions of the United States. Classes will cover the economic and demographic factors governing the distribution, within natural regional conurbations, of residences, industries and all other activities whose location is economically determined.

Prerequisite: SBC 206
3 credits

EDP 305 Risk Assessment and Sustainable Development

Course presents a comprehensive overview of risk analysis and its application to a broad range of human activities. The methodology of risk analysis enables those involved in environmental sustainability to evaluate the probability of an adverse effect of an agent chemical, industrial process, or natural process.

Prerequisite: ENV 115
3 credits

EDP 307 Theories and Design of Urban Settlements

The course introduces students to the underlying economic, social and physical forces that shape the development of human settlements, with an emphasis on urban conurbations, and the typical United States metropolitan region.

Prerequisite: SBC 206, SBC 111
3 credits

EDP 309 Planning: Policies and Regulations

An introduction to the process of planning and development of regulations necessary for the implementation of planning objectives.

Prerequisite: SBC 200
3 credits

EDP 404 Environmental Design Project

Students will be formed into teams of 5 - 6 students representing the three major programs to jointly collaborate on a real-world environmental/planning problem affecting one of the eastern five towns of Suffolk County. They will participate with the respective municipal planning and environmental agencies and the residents of the geographic area. The students’ role will be to serve as the professional consultant to the community. The design project presented in written, graphic and model form will be critiqued by a panel from the community and local government, including out-of-area experts.

Prerequisite: U3/U4, CSK 102
3 credits