

# PUBLIC POLICY (PUBP)

## **PUBP 6001. Introduction to Public Policy. 1 Credit Hour.**

An introduction to the field of public policy, including an overview of the scope of the field and examples of public policy analysis.

## **PUBP 6010. Ethics, Epistemology, and Public Policy. 3 Credit Hours.**

Examination of the role of ethics and epistemology in public decision making including the effects of values of professionals on public institutions and private sector organizations.

## **PUBP 6012. Fundamentals of Policy Processes. 3 Credit Hours.**

The political and governmental context of policy is presented, from agenda setting to evaluation. Examines constitutional and federal contexts of policy, the role of various input mechanisms in shaping policy decisions, the processes by which government institutions make decisions (and the interactions among these institutions), and approaches for understanding and anticipating policy decision making.

## **PUBP 6014. Organization Theory. 3 Credit Hours.**

A broad overview of the theoretical issues pertaining to the management of organizations. The course explores both "macro" (i.e. external relations, strategies, and structures) organizational issues. While this is a survey course, we will be concentrating much of our attention on current challenges to bureaucracy as a form of organization. In particular, we will be using theories to examine trends toward re-engineering corporations or re-inventing government agencies. Satisfies policy implementation, management, and organization theory requirement.

## **PUBP 6017. Public Management. 3 Credit Hours.**

Using case studies and a field exercise, students will examine how public policies are executed and managed. Underlying the course is the assumption that public management, is the management of political authority and that strategic thinking can make for effective public management. Satisfies policy implementation, management and organization theory requirement.

## **PUBP 6018. Policy Implementation and Administration. 3 Credit Hours.**

This course gives special attention to institutional processes in efforts to coordinate policy implementation at the federal level and within the intergovernmental context; the analysis of implementation and enforcement of policy by regulatory agencies with the support of state governments and private sector agents; challenges to implementation by policy type; and the analysis of policy tools and administrative discretion in implementation. Satisfies policy implementation, management, and organization theory requirement.

## **PUBP 6111. Internet and Public Policy. 3 Credit Hours.**

Analyzes policy implications of Internet architecture (Internet protocols, domain name system, packet switching, peer-to-peer) and surveys policy issues about content, privacy, intellectual property, and governance.

## **PUBP 6112. Research Design in Policy Science. 3 Credit Hours.**

The objectives for this course include: (1) providing a broad overview of research methods and research criteria; (2) giving students the opportunity to conduct data-based research and analysis; (3) providing more specialized knowledge of one set of research techniques (e.g. survey research, case studies, experimentation - varies by term); (4) providing experience in presenting and defending research.

## **PUBP 6114. Applied Policy Methods and Data Analysis. 3 Credit Hours.**

Development of the ability to extract meaning from multivariate data sets configured in formats amenable to statistical analysis in social science and policy analysis. This course introduces multivariate data collection, production, description, management and presentation for public policy; multivariate probability distributions; inferential statistics with multivariate data sets; graphical methods for multivariate data analysis; and the use of statistical programming languages.

## **PUBP 6116. Microeconomics for Policy Analysis. 3 Credit Hours.**

Microeconomic theory is studied with applications to public problems. Students will be introduced to price-generating processes in an economy, demand and supply theory, market equilibrium, welfare economics, categories of market failure, and the public sector's role.

## **PUBP 6118. Public Finance Policy. 3 Credit Hours.**

Examines the theory, practice and policy implementations of federal, state, and local government budgeting and finance. Topics include government spending decisions with a focus on aggregate demand and supply, fiscal policy, budgeting practice, introduction to cost/benefit analysis.

## **PUBP 6120. Cost Benefit Analysis for Policy. 3 Credit Hours.**

This course introduces Cost-Benefit Analysis theory and methods. Governments and other regulators can use Cost-Benefit analysis to increase the efficiency of public policy.

## **PUBP 6201. Public Policy Analysis. 3 Credit Hours.**

This course provides a capstone experience for public policy students. The course addresses real-world policy issues and various approaches to analyzing them. The course relies heavily on cases and exercises.

## **PUBP 6218. Quantitative Models in Public Policy. 3 Credit Hours.**

This course lays a foundation for model building, and through the introduction of a variety of software packages will provide some hands-on experience with elementary model-building. Decision models will be emphasized. Some familiarity with data analysis, probability, and statistical models is assumed. The goal of the course is to equip students with basic model building tools, familiarize them with common problems in modeling, and improve their ability to create and evaluate simple models of policy problems.

## **PUBP 6221. Policy and Program Evaluation. 3 Credit Hours.**

Approaches to evaluation policies and programs are presented using examples and case studies to contrast evaluation methods as well as the organizational and political context for evaluation.

## **PUBP 6226. Business and Government. 3 Credit Hours.**

Examines government regulation of business operations and the economy from a broad perspective.

## **PUBP 6300. Earth Systems. 3 Credit Hours.**

Describes the scientific principles and interactions that make up the Earth's environmental system. The course examines the interaction of natural and human influences that shape the development and operation of the Earth system and how public and private decision-making impacts this system.

## **PUBP 6310. Environmental Issues. 3 Credit Hours.**

Provides an overview of basic concepts and methods of environmental policy analysis and implementation through a case study approach. Cases will range from local to global environmental policy issues. The goal of the course will be to expose students to the broad range of social and physical problems referred to as "environmental" problems, and to orient the student for future work in the field.

**PUBP 6312. Economics of Environmental Policy. 3 Credit Hours.**

This course addresses key concepts in environmental economics, including externalities, efficiency, social welfare and environmental quality as a public good. Addresses environmental problems (i.e. water resources, air quality, urbanization) and vehicles of collective environmental action.

**PUBP 6314. Policy Tools for Environmental Management. 3 Credit Hours.**

Explores the various regulatory, managerial, and legal mechanisms available to policy analysts and decision makers for protecting environmental quality.

**PUBP 6326. Environmental Values and Policy Goals. 3 Credit Hours.**

Examines the goals and objectives of environmentalists, with special attention to the literature of environmental ethics.

**PUBP 6327. Sustainability and Environmental Policy. 3 Credit Hours.**

This course explores the theory and practice of sustainable development, surveying areas of consensus and controversy in emerging thought on sustainability. Credit not allowed for both PUBP 6327 and PUBP 6320.

**PUBP 6330. Environmental Law. 3 Credit Hours.**

Presents the legal and institutional framework within which environmental law is developed and implemented in the in the United States and internationally. Also examines the major pollution control statutes, and reviews international law and conventions to address trans-boundary environmental issues.

**PUBP 6350. Energy Policy & Markets. 3 Credit Hours.**

Examines theory and policy impacting production and utilization of energy in the U.S. and abroad. Addresses resource constraints, environmental impacts, and policy analysis tools.

**PUBP 6352. Utility Regulation and Policy. 3 Credit Hours.**

Covers regulation of energy and water systems, including environmental laws, rate setting, purchase obligations, and policies influencing consumers, including solar systems and efficiency.

**PUBP 6354. Climate Policy. 3 Credit Hours.**

Examines relevant scientific theory, the history of international negotiation and institutional, economic and technological alternatives to reduce emissions sources and/or adapt to climate change impacts.

**PUBP 6360. Sustainable Energy & Environmental Management. 3 Credit Hours.**

The course introduces the theory and philosophy of sustainability and how that theory is implemented through the public and private sectors.

**PUBP 6401. Science, Technology, and Public Policy. 3 Credit Hours.**

Examination of the relationships between science, technology, and government, including policies for support, control, and application of science and technology.

**PUBP 6402. Research Policy and Management. 3 Credit Hours.**

Examines challenges in research policy and management. The research activities of public, private, and not-for-profit organizations are contrasted in examining strategic planning, allocation of resources, technology transfer, and research evaluation practices.

**PUBP 6403. Scientific Careers and Workplaces. 3 Credit Hours.**

Focuses on key social and organizational dimensions of scientific careers and workplace sectors (academia, industry, and government).

**PUBP 6414. Technological Innovation and Government Policy. 3 Credit Hours.**

Federal and state policies to stimulate innovation; sources and stimuli for innovation; role of universities and industry consortia; comparative innovation policy; evaluation of technology policy.

**PUBP 6415. Technology, Regions, and Policy. 3 Credit Hours.**

Explores concepts, issues, and policies related to regional development, economic development, industrial change, and technology policy.

**PUBP 6417. Critical Perspectives on Science and Technology. 3 Credit Hours.**

This course seeks to stimulate students' critical thinking about science and technology and their relationships to markets, politics and societies. Discussions include topics such as the social organization of scientific and technical communities, the roles of economic and political forces in science and technology, the shaping of the technical workforce, and the implications of science and technology for concepts that go beyond utility and competitiveness to include justice and self-realization.

**PUBP 6421. Development of Large-scale Socio-technical Systems. 3 Credit Hours.**

Analyzes development of large systems such as smart highways, computer networks, electrical power, weapons, and space. Teaches practical skills including negotiation, coalition-building, strategy, and innovation politics.

**PUBP 6440. Science, Technology, and Regulation. 3 Credit Hours.**

Examines historical, legal, economic, and political rationales for regulation. Survey of administrative law and processes, risk analysis/management, expertise and public, and current topical issues. Credit not allowed for both PUBP 6440 and PUBP 4440.

**PUBP 6501. Information Policy and Management. 3 Credit Hours.**

An introduction to the role of information and knowledge in modern private and public organizations. It covers theoretical and practical aspects of information seeking, gathering and use in organizations as well as knowledge creation and its role in private and public management. Credit not awarded for both PUBP 6501 and PUBP 4501.

**PUBP 6502. Information and Communications Technology Policy. 3 Credit Hours.**

Examination of the convergence of information technology, communications and telecommunication, policymaking within the executive/regulatory branches, special interest group role, and key domestic and international issues.

**PUBP 6514. Mass Communications Policy. 3 Credit Hours.**

Traces the evolution of broadcasting, cable, and other mass media policies. Examines the functioning/impact of mass communications in a changing technological environment.

**PUBP 6521. Globalization & Policy. 3 Credit Hours.**

This course will serve as an introduction to the fundamental concepts, theories, conflicts, and issues of globalization and its effects on public policy.

**PUBP 6530. Introduction to Geographic Information Systems. 3 Credit Hours.**

Introduction to the application of geographic information systems (GIS) to public policy issues. Students develop an understanding of GIS software and hardware components, develop facility with a desktop GIS software package, explore digital data availability on the Internet, learn data transfer procedures, learn cartographic projection methods, apply GIS and environmental management data to analyze a selected program.

**PUBP 6540. Public Policy for the Digital World. 3 Credit Hours.**

The political economy of the digital transformation: policy problems in AI regulation, money digitization, data governance, content regulation, platform competition, trade, industrial policy.

**PUBP 6600. Foundations of Local Economic Development Planning and Policy. 3 Credit Hours.**

Introduction to the context, theory, process, and practice of local economic development planning and policy. Topics covered include: differing theoretical and conceptual explanations of the economic development process; international, national, and regional factors affecting local economic development; federal, state, and local roles; key elements in the economic development process; and contrasting economic development approaches.

**PUBP 6602. Economic Development Analysis and Practice. 3 Credit Hours.**

Strategy development, methods of analysis, and approaches to practice for urban and regional economic development policy and planning.

**PUBP 6604. Methods of Urban Policy Analysis and Planning. 3 Credit Hours.**

Applies analytical techniques and practices of public policy and planning to urban issues, synthesizing varied public policy techniques and practices in a case study context.

**PUBP 6606. Urban Development Policy. 3 Credit Hours.**

Introduces elements of urban policy and urban economic development by examining them historically, nationally, and locally. Approaches to urban development and redevelopment are analyzed.

**PUBP 6701. Energy Technology Policy. 3 Credit Hours.**

Examines energy production, use, and policy using quantitative engineering and policy analysis. Addresses resource constraints, physical principles, and policy analysis methods.

**PUBP 6725. Information Security Policies and Strategies. 3 Credit Hours.**

Information security vulnerabilities and risks; legal, cost, privacy and technology constraints; derivation of strategies; technical and procedural means of achieving desired ends. Credit not awarded for both PUBP 6725 and PUBP 4725/CS/MGT 4725/6725.

**PUBP 6726. Privacy, Technology, Policy, and Law. 3 Credit Hours.**

This course takes a multi-disciplinary approach to privacy, a topic of great interest in the technology, policy, ethics, law, and business realms. Credit will not be awarded for more than one of PUB 6726, MGT 6726 or CS 6726.

**PUBP 6727. Cyber Security Practicum. 5 Credit Hours.**

Capstone independent study project placing each student in a commercial, academic or government setting where he or she identifies a major cyber security problem, and explores and evaluates a solution that addresses it with realistic assumptions about the organizational context. The chose problem must be approved by course instructor. Cross-listed with ECE and CS 6727.

**PUBP 6740. Innovation, the State and Industrial Development in International Perspective. 3 Credit Hours.**

Research seminar exploring the role of the state in industrial development, innovation and business-government relations. Special attention given to science and technology policies and their influence in different international and industrial contexts. Crosslisted with INTA 6740.

**PUBP 6741. Geography of Innovation. 3 Credit Hours.**

Examination of the growing discussion on the knowledge economy, learning regions, innovation capacity, and place management and what those strategies mean for regional economies.

**PUBP 6743. Science, Technology & Society: Core Seminar. 3 Credit Hours.**

This survey course covers key works in Science, Technology & Society, and guest lectures introduce students to faculty doing STS-related research across the Ivan Allen College. Credit not allowed for both PUBP 6743 and HTS 6743 or LCC 6743.

**PUBP 6748. Social Justice, Critical Theory, and Philosophy of Design. 3 Credit Hours.**

Focuses on social justice from a Science, Technology, and Society (STS) point of view that is informed by critical theory and philosophy of design. Credit not allowed for both PUBP 6748 and LCC 6748.

**PUBP 6749. Feminist Theory and Science and Technology Studies. 3 Credit Hours.**

This course is an advanced science, technology and society (STS) seminar in feminist theory. Credit not allowed for both PUBP 6749 and LCC 6749.

**PUBP 6753. Comparative Science and Technology Policy. 3 Credit Hours.**

Examination of the social, political, and cultural contexts of science and technology, and how they affect the research, development, and regulatory policies of nations. Crosslisted with INTA 6753.

**PUBP 6760. Negotiation and Conflict Management. 3 Credit Hours.**

Practical and theoretical instruction on techniques of negotiation and consensus building using training exercises and case studies. Emphasizes environmental, policy, planning, and development disputes. Crosslisted with CP 6760.

**PUBP 6777. Analysis of Emerging Technologies. 3 Credit Hours.**

This course develops skills in the use of selected methods for technology monitoring, forecasting, and assessment. Also examines current status and prospects in selected emerging technology domains. Crosslisted with ISYE 6777.

**PUBP 6801. Research Paper. 3 Credit Hours.**

Either a professional policy research paper or a team research project including a co-authored policy research monograph prepared for a government or public affairs client.

**PUBP 6XXX. Public Policy Elective. 1-21 Credit Hours.****PUBP 7000. Master's Thesis. 1-21 Credit Hours.****PUBP 8101. Workshop on Policy Research I. 1 Credit Hour.**

Course provides an overview of research and professional socialization. It presents topics partially satisfying GT RCR policy for in-person training. Student will brainstorm dissertation topics.

**PUBP 8102. Workshop on Policy Research II. 1 Credit Hour.**

Course provides an overview of public policy research and professional socialization. It completes the sequence of topics satisfying GT RCR policy for in-person training.

**PUBP 8200. Advanced Research Methods I. 3 Credit Hours.**

The course will cover advanced policy analysis and modeling methods, including regression models, and other topics as time permits.

**PUBP 8205. Advanced Research Methods II. 3 Credit Hours.**

Building on Advanced Research Methods I, the course will cover advanced policy analysis and modeling methods, for example, panel data and nonparametric regression. Other policy research methods may be explored as time permits.

**PUBP 8211. Microeconomic Theory and Applications. 3 Credit Hours.**

Extensions of microeconomic theory-consumer theory, firm theory, and markets-to situations involving many periods and uncertainty. Introduces students to general equilibrium, externality, and welfare economics.

**PUBP 8500. Research Seminar in Public Policy. 3 Credit Hours.**

Exploration of the purpose of and approaches used in public policy research. Requires development of original empirical research.

**PUBP 8510. Logic of Policy Inquiry. 3 Credit Hours.**

An examination of the role of knowledge claims in policy formulation and analysis. Policy formulations have embedded knowledge claims and the course will prepare students to assess the validity of arguments, the relevance and quality of evidence in policy knowledge claims and the role and merits of their assumptions.

**PUBP 8520. Scope and Theory of Public Policy. 3 Credit Hours.**

Overview of core literature of public policy including theories of public policy, the history of public policy studies, the institutional structure of policy analysis, the profession of policy research, and the intellectual bases of public policy studies.

**PUBP 8530. Advanced Science and Technology Policy. 3 Credit Hours.**

Overview of core literature of technology and science policy, theories of innovation, intellectual foundations of technology and science policy.

**PUBP 8540. Advanced Environmental Policy. 3 Credit Hours.**

Overview of core literature of environmental policy, theories of environmental policy, intellectual foundations of environmental policy.

**PUBP 8550. Advanced Urban and Regional Economic Development Policy. 3 Credit Hours.**

Overview of core literature of economic development policy, theories of economic development in urban and regional settings, intellectual foundations of economic development policy.

**PUBP 8590. Dissertation Colloquium. 3 Credit Hours.**

Seminar focusing on dissertation research preparation, culminates in public colloquium in which students present preliminary dissertation proposal.

**PUBP 8751. Big Data and Public Policy. 3 Credit Hours.**

Introduces fundamentals of big data and quantitative methods for public policy and social science applications. Topics for applications vary by semester.

**PUBP 8801. Special Topics. 1 Credit Hour.**

**PUBP 8802. Special Topics. 2 Credit Hours.**

**PUBP 8803. Special Topics. 3 Credit Hours.**

**PUBP 8811. Special Topics. 1 Credit Hour.**

**PUBP 8812. Special Topics. 2 Credit Hours.**

**PUBP 8813. Special Topics. 3 Credit Hours.**

**PUBP 8821. Special Topics. 1 Credit Hour.**

**PUBP 8822. Special Topics. 2 Credit Hours.**

**PUBP 8823. Special Topics. 3 Credit Hours.**

**PUBP 8831. Special Topics. 1 Credit Hour.**

**PUBP 8832. Special Topics. 2 Credit Hours.**

**PUBP 8833. Special Topics. 3 Credit Hours.**

**PUBP 8900. Special Problems. 1-21 Credit Hours.**

**PUBP 8910. Special Problems. 1-21 Credit Hours.**

**PUBP 8920. Special Problems. 1-21 Credit Hours.**

**PUBP 8930. Special Problems. 1-21 Credit Hours.**

**PUBP 8940. Special Problems. 1-21 Credit Hours.**

**PUBP 8950. Special Problems. 1-21 Credit Hours.**

**PUBP 8997. Teaching Assistantship. 1-9 Credit Hours.**

For graduate students holding a teaching assistantship.

**PUBP 8998. Research Assistantship. 1-9 Credit Hours.**

For graduate students holding a research assistantship.

**PUBP 8999. Preparation for the Doctoral Qualifying Examination. 1-21 Credit Hours.**

**PUBP 9000. Doctoral Thesis. 1-21 Credit Hours.**