

Telecommunications Policy

*Offered by the
School of Public Policy*



Program Description and Admissions Information

**School of Public Policy
George Mason University
Graduate Admissions
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Arlington, VA 22201**

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Telecommunications Policy Program Guide

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This Guide incorporates most of the requirements and rules pertaining to the Telecommunications Policy program in the School of Public Policy. In addition, the University Catalog and associated requirements and rules, along with other pertinent University policies apply to, and in the case of inconsistency, take precedence over this Guide.

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Telecommunications Policy Program Overview

The **School of Public Policy** (SPP) administers the **Master of Arts in Telecommunications Policy**. The Telecommunications Policy program explores the way language, culture, and technology intersect with management, regulation, and commerce to shape public policies at all levels of government and industry. The program cuts across traditional academic lines to seek best practices for dealing with a number of issues, such as which products should be taxed, whether or not controlled monopolies should be dismantled in favor of free enterprise, and how instantaneous communications are changing the fabric of society at large. Students enrolled in this program will develop a solid theoretical foundation while at the same time explore practical applications of their studies.

Graduates of the program will find their skills in high demand. The Washington, D.C. metropolitan area has numerous employers in the field of telecommunications. From the federal government's executive, legislative, and judicial branches to the myriad policy centers and foundations, there is no shortage of professional opportunities in the field of public policy. In the private sector, law firms, Fortune 500 companies, and industry associations abound, offering as many challenges as those willing to accept them. With a degree in Telecommunications Policy from the George Mason School of Public Policy, graduates are well-positioned to assume and excel at leadership positions.

Students may be admitted as either full-time or part-time students, in the fall or spring semester. Courses are offered at the George Mason University – Arlington Campus to meet the needs of working professionals. The program is designed to create a shared learning experience, where students can benefit from each others' background and knowledge. Students with varying academic disciplines and work experience provide a lively and varied student enrollment for the Telecommunications Policy program.

The School of Public Policy conducts policy research in a number of fields, including regional economic development, transportation policy, science and technology policy, electronic commerce and organizational informatics, governance and public management, and economic policy. The **School of Public Policy** is ranked third in the country for expenditures from federal sources and tenth in expenditures from all sources (NSF 2005 discipline research listing).

SPP ADMINISTRATION AND FACULTY

Kingsley E. Haynes, Ph.D.	Dean	khaynes@gmu.edu	(703) 993-4108
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Jonathan Gifford, Ph.D.	Associate Dean for Research & Director, TPOL Program	jgifford@gmu.edu	(703) 993-2275
Matthysse van Schaik, Ph.D.	Associate Dean for Academic Affairs	mvanscha@gmu.edu	(703) 993-8227
Michael Kelley, Ph.D.	Director, Telecommunications Policy Program	mkelley@gmu.edu	(703) 993-3100
Leslie M. Levin	Assistant Dean of Graduate Admission and Marketing	lmetzger@gmu.edu	(703) 993-8099
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Jill V. Emerson	Director of Student Services	jemerson@gmu.edu	(703) 993-8209
Duane D. Bradshaw	Associate Director of Career Development	dbradsha@gmu.edu	(703) 993-3188
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William H. Coester	Administrator	wcoester@gmu.edu	(703) 993-2261
Susan McClure	Assistant to the Dean	mmclure@gmu.edu	(703) 993-4108

FACULTY AND THEIR RESEARCH

Zoltan J. Acs, University Professor, BA 1972, Cleveland State University; MA 1974, PhD 1980, New School University.

Mark Addleson, Associate Professor of Organization Development and Knowledge Management; Ph.D., University of Witwatersrand, 1992. Learning organizations and knowledge management, methodology of social inquiry, Austrian economics.

David J. Armor, Professor of Public Policy; Ph.D. 1966, Harvard University. Education policy, culture and values, quantitative research methods.

Philip E. Auerswald, Assistant Professor; Ph.D., University of Washington, 1999.

Ann Baker, Associate Professor; Ph.D., Case Western Reserve University, 1995. Organizational conversation, dialogue, and change as sources of learning; multiculturalism; creating organizational learning communities.

Kenneth J. Button, Professor of Public Policy; Ph.D., Loughborough University, U.K, 1981. Transportation economics and policy, economics of regulation, aviation policy, analytic modeling, policy analysis.

Desmond Dinan, Jean Monnet Professor of Public Policy; Ph.D., National University of Ireland, 1985. International commerce and European union.

Michael K. Fauntroy, Assistant Professor; Ph.D., Howard University, 2001. American government and politics.

James H. Finkelstein, Professor and Vice Dean; School of Public Policy; Ph.D., The Ohio State University, 1980. Education policy and qualitative research methods.

Allison Frendak-Blume, Assistant Professor of Public Policy; Ph.D., George Mason University, 2004. Conflict analysis and resolution, international peacekeeping.

A. Lee Fritschler, Professor; Ph.D., Syracuse University, 1965. American government, regulation, public management and higher education policy.

Stephen S. Fuller, University Professor and Professor of Public Policy and Regional Development; Ph.D., Cornell, 1969. Regional economic development; the Washington, D.C. regional economy; economic performance indicators.

Jonathan L. Gifford, Professor of Public Policy, Associate Dean for Research and Director, Transportation Policy, Operations, and Logistics M.A. Program; Ph.D., University of California, Berkeley, 1983. Transportation policy, operations and logistics.

Jack A. Goldstone, Virginia E. Hazel and John T. Hazel, Jr. Professor of Public Policy; Ph.D., Harvard, 1981. Political conflict, democratization, and state-building.

Thomas R. Gulledge, Professor of Public Policy and Operations Research; Ph.D., Clemson, 1981. Organizational informatics, interaction of enabling information technologies with organizational processes, systems engineering economics, defense policy, and technology transfer.

David M. Hart, Associate Professor of Public Policy; Ph.D., Massachusetts Institute of Technology, 1995. Science and technology, lobbying and interest representation, governance, and entrepreneurship and innovation.

Kingsley E. Haynes, University Professor and Dean, School of Public Policy; Ph.D., Johns Hopkins University, 1970. Infrastructure, regional economic analysis, regional development and policy.

Jack C. High, Professor of Public Policy, Economics and Social Learning; Ph.D., UCLA, 1980. Business and economic history, international economics, international business.

Christopher T. Hill, Professor of Public Policy and Technology and Director, Public Policy Ph.D. program; Ph.D., University of Wisconsin, 1969. Federal science and technology policy, industrial research and development, U.S. Congress.

Andrew Hughes Hallett, Professor of Public Policy and Economics; Ph.D., University of Oxford (Nuffield College), 1976. Open Economy Macroeconomics, Policy Coordination and Exchange Rate Management, Monetary Integration, Regionalism, Policy Choice and Reform, Theory of Economic Policy and Institutional Design, Numerical Methods in Econometrics.

Michael R. Kelley, Professor and Director, Telecommunications Policy program; Ph.D., The Catholic University of America, 1970. Telecommunications policy, wireless broadband technologies, spectrum management.

Naoru Koizumi, Assistant Professor of Public Policy. BA 1992, Aoyama-Gakuin University; MA 1994, PhD 2002, University of Pennsylvania; PhD 2005, Hyogo Medical College.

Andrew F. Krepinevich, Distinguished Visiting Professor of Public Policy. BS 1972, United States Military Academy; MPA 1980, PhD 1984, Harvard University.

Todd M. La Porte, Associate Professor; Ph.D., Yale University, 1989. Public Administration, comparative politics, and European politics.

Stuart S. Malawer, Distinguished Service Professor of Law & International Trade; Ph.D., University of Pennsylvania, 1976. International commerce, trade policy and law.

Monty G. Marshall, Research Professor, School of Public Policy. BA 1988, University of Colorado; MA 1990, University of Maryland; PhD 1996, University of Iowa.

Jeremy Mayer, Associate Professor and Director of the Master of Public Policy Program, Ph.D., Georgetown University, 1996. National institutions, presidential elections, public opinion, racial politics, and statistical analysis.

Connie L. McNeely, Associate Professor of Public Policy; Ph.D., Stanford 1990. Culture and Policy; states and society; international development; organizations; race, ethnicity, and nations; comparative policy.

Arnauld Nicogossian, Distinguished Research Professor; M.D., Teheran University, 1964; M.S., Ohio State University, 1972. Biodefense policy, international public health, medical policy development and processes, distance learning and public health.

Wayne D. Perry, Professor of Public Policy and Operations Research; Ph.D., Carnegie Mellon, 1975. Arms control policy and the nuclear nonproliferation treaty, deterrence strategies and the proliferation of weapons of mass destruction, regulatory policy and risk assessment associated with the transportation of hazardous materials.

John E. Petersen, Professor of Public Policy; Ph.D., University of Pennsylvania, 1967. Government finance, state & local government.

James P. Pfiffner, Professor of Public Policy, Government and Politics; Ph.D., Wisconsin, 1975. The presidency, the management of public policy, American national government.

Ramkishan S. Rajan, Associate Professor of Public Policy. BS, National University of Singapore; MA, University of Michigan; MA, PhD, Claremont Graduate University.

Kenneth A. Reinert, Associate Professor of Public Policy and Director, International Commerce and Policy program; Ph.D., University of Maryland, 1988. International trade policy.

James D. Riggle, Research Associate Professor, Ph.D., George Mason University, 2002. American government and politics, regional economic development.

Charles S. Robb, Distinguished Professor of Law and Public Policy, J.D., University of Virginia, 1973.

Mark Rozell, Professor; Ph.D., University of Virginia, 1987. American government, the presidency, separation of powers, media & politics, religion & politics.

Hilton L. Root, Professor of Public Policy; Ph.D., University of Michigan, 1983. International Economics and Finance, International Development, Developing Nations, Political Economy of the Design and Implementation of Development Policy, Economic Policy Reform, North-South relations and Asian-Pacific Affairs.

Catherine Rudder, Professor and Associate Dean; Ph.D., Ohio State University, 1973. Public policy, U. S. Congress, legislative policies, governance and non-profit organizations.

Stephen R. Ruth, Professor, Ph.D., University of Pennsylvania, 1971. International diffusion of Internet technology, knowledge management policy, and metrics for on line learning.

Laurie A. Schintler, Assistant Professor of Public Policy; Ph.D., University of Illinois at Urbana-Champaign, 1995. Regional development, transportation, and quantitative methods.

Frank Sesno, University Professor of Public Policy and Communications; B.A., Middlebury College, 1977. News media; politics and foreign policy; crisis communications and homeland security; media and the military.

Edgar H. Sibley, University Professor; Sc.D, MIT, 1967. Policy and information technology, international and national issues in information technology.

Carlos E. Sluzki, Research Professor; M.D., University of Buenos Aires, 1960. Social networks; refugees; migration; and violence.

Rainer Sommer, Associate Professor of Public Policy; Ph.D., Columbia Pacific University, 1991, and George Mason University, 1998. Enterprise engineering and telecommunications.

Roger R. Stough, Vice President for Research and Economic Development, NOVA Endowed Chair and Professor of Public Policy; Ph.D., Johns Hopkins, 1978. Regional analysis, intelligent transportation systems institutional issues, transportation and economic development, technology-led regional economic development policy.

Tojo J. Thatchenkery, Associate Professor and Director, Program on Organization Development and Knowledge Management; Ph.D., Case Western Reserve University, 1993. Asian-American diversity in organizations, hermeneutic perspectives on knowledge management, and discourse analysis.

Susan Tolchin, Professor of Public Policy; Ph.D., New York University, 1968. Governance, public policy systems, ethics, American national government, including U.S. Congress and the presidency.

Matthys van Schaik, Associate Dean for Academic Affairs; Ph.D., University of South Carolina, 1995. International commerce and research methods.

Janine R. Wedel, Associate Professor; Ph.D. University of California, Berkley, 1985. Governing; corruption; foreign aid; social networks; Eastern Europe; anthropology of public policy.

Selected Affiliated Faculty

Kevin Avruch, Professor of Anthropology; Ph.D., University of California, San Diego, 1978.

Timothy Conlan, Associate Professor of Government and Politics; Ph.D., Harvard, 1981.

Thomas Dietz, Professor of Sociology; Ph.D., University of California, Davis, 1979.

George L. Donahue, Professor of Systems Engineering and Operations Research; Ph.D., Oklahoma State University, 1972.

Robert L Dudley, Associate Professor of Government and Politics.

Terry L. Friesz, Professor of Systems Engineering & Operations Research; Ph.D., Johns Hopkins University, 1977.

Gregory A. Guagnano, Associate Professor of Sociology; Ph.D., University of California, Davis, 1986.

Michael W. Gremminger, European Union Fellow, MBA, University of Manheim, 1990.

Hugh Hecl, Robinson Professor of Public Affairs; Ph.D., Yale University, 1970.

James T. Hennessey, Chief of Staff; Ph.D., George Mason University, 1997.

Julianne G. Mahler, Associate Professor of Government and Politics; Ph.D., State University of New York, Buffalo, 1976.

John Paden, Robinson Professor of International Studies; Ph.D., Harvard University, 1968.

Priscilla M. Regan, Associate Professor of Government and Politics; Ph.D., Cornell University, 1981.

Joseph A. Scimecca, Professor of Sociology; Ph.D., New York University, 1972.

Edgar H. Sibley, University Professor; Sc.D., Massachusetts Institute of Technology, 1967.

Instructional and Research Faculty

Brien Benson, Research Associate Professor; Ph.D., George Mason University, 1998.

Rex V. Brown, Research Professor; Ph.D., Harvard University, 1968.

Audrey E. Clarke, Research Professor; Ph.D., Kent State University, 1992.

George Cook, Affiliate Professor; A.B., George Washington University, 1957.

David F. Davis, Research Assistant Professor, School of Public Policy; M.S. (Applied Mathematics), 1981, M.S. (Operations Research), Naval Postgraduate School, 1981.

Lisa Fowler, Research Assistant Professor; Ph.D., George Mason University, 2006.

Roger G. Harrison, Distinguished Visiting Professor; Ph.D., Claremont Graduate School, 1979.

Arthur S. Melmed, Research Professor; M.S.E.E., Columbia University, 1956.

Jean P.H. Paelinck, Distinguished Visiting Professor, Doctor of Law, University of Liege, Belgium, 1954.

Alexander E.R. Woodcock, Research Professor; Ph.D., University of East Anglia, England, 1968.

Adjunct Faculty

Simon Bensimon, Ph.D

Nirmala Cherukupalle, Ph.D.

Michael Curtis, Ph.D.

John Fieno, Ph.D.

G. Daniel Gaske, Ph.D.

Delio Gianturco, M.A.

John Gordon, Ph.D.

David Muhlhausen, Ph.D.

Robert A. Rogowsky, Ph.D.

John Rosenwasser, Ph.D.

Bonnie Stabile, Ph.D.

John Sullivan, Ph.D.

Marc Thilbault, Ph.D.

George W. Thompson, J.D.

Cathryn Q. Thurston, Ph.D.

Irvin Varkonyi, M.B.A.

Telecommunications Policy Program Curriculum

The Telecommunications Policy program requires 36 credits of course work.

PROGRAM FORMAT

1) Required SPP Common Core Courses (12 credits):

The faculty of the SPP has developed an innovative set of three common courses that are required for all master's degree students in the School. The purpose of these core courses is to build a common perspective, language and skill set for all SPP students, as well as the building blocks for the public policy professional.

PUBP 501: Policy and Organizational Analysis

PUBP 502: Governance and Policy Processes

PUBP 503: Culture, Organization and Technology

2) Public Policy Core Courses (6 credits):

Students are required to complete two public policy courses which will introduce them to the historical and intellectual development of the discipline as well as provide the skills to understand economic literature and theories.

PUBP 700: Theory and Practice in Public Policy

PUBP 720: Managerial Economics

3) Telecommunications Core Courses (12 credits):

The purpose of these courses is to provide a solid foundation to pursue advanced coursework in the Telecommunications Policy field.

PUBP 726: Telecommunications Policy

TELE 730: Telecommunications Management

PUBP 710: Telecommunications Law and Regulatory Policy

TELE 750: Coordinating Seminar (*taken after 27 hours*)

4) Elective Courses (6 credits):

Students will be asked to complete 2 elective courses from the following options.

ITRN 604: International Trade and Technology

ITRN 730: Information Technology Fundamentals for International Business and Trade

ITRN 737: World Trade in Semiconductors and Information Technologies

ITRN 742: Technology Policy and International Strategies

ITRN 769: International Entrepreneurship

ITRN 772: International Telecommunications

ITRN 773: International Strategic Management

ITRN 780: Internship

ITRN 790: Independent Study

MBA 734: Electronic Commerce

MBA 736: Managing Digital Business

PUBP705: Advanced Statistical Methods for Policy Analysis

PUBP 736: The Global Information economy and the Digital Divide

PUBP 737: Cases and Concepts in E-Government

PUBP 738: Information Technology and Institutional Change

PUBP 739: Media and Public Policy

PUBP 794: Internship

PUBP 796: Directed Readings and Research

TCOM 500: Telecommunications Engineering

TELE 730: Telecommunications Management

DESCRIPTIONS OF REQUIRED CORE COURSES

SPP Core Courses (3 Courses – 12 credits)

PUBP 501 *Policy and Organizational Analysis* (4 credits)

This course prepares students to engage in systematic analysis, both qualitative and quantitative, and constitutes the foundation for advanced analytic techniques. The course will emphasize research design, application of data analysis techniques, and presentation, including writing for professional and lay audiences.

PUBP 502 *Governance and Policy Processes* (4 credits)

This course assesses governance processes in public and private organizational settings on the basis of economic and political standards such as efficiency, accountability, and responsiveness to societal needs in a rapidly changing global environment. Using cases, simulations, and fieldwork, students learn to evaluate the quality of institutional governance in specific venues and to appraise the implications for public policy.

PUBP 503 *Culture, Organization and Technology* (4 credits)

This course focuses on the influence of culture in societal, political, economic, and technological processes, nationally and internationally. Culture is seen as dynamic and interactional. Using case studies, students learn pertinent approaches to the study of culture, from the analysis of organization and social networks to that of belief systems and identities. Students also develop practical skills in observation, participation, and intervention.

Public Policy Core Courses (2 Courses – 6 credits)

PUBP 700 *Theory and Practice in Public Policy* (3 credits)

Theories of public policy emphasizing both the historical intellectual development of the discipline and the role that theory and ethics may be expected to play in public policy making. Assumptions made by policy professionals will be examined reflectively against a broad range of philosophical, social, political, and economic imperatives currently impacting the public policy environment.

PUBP 720 *Managerial Economics and Policy Analysis* (3 credits)

Focuses on the application of microeconomics theory in analyzing public policy issues. The course is intended to provide the student with the capability to understand economic literature and theories.

Telecommunications Policy Core Courses (4 Courses – 12 credits)

PUBP 726 *Telecommunications Policy* (3 credits)

Examines salient issues associated with telecommunications and electronic commerce in the context of public policy questions facing decision makers – in government, education and business. Examples: privacy, electronic signatures, digital divide, bandwidth auctions, IP telephony, CRM, Bluetooth, Internet taxation.

TELE 730 *Telecommunications Management* (3 credits)

Surveys the strategic and organizational issues in the field of telecommunications management. Focus is on strategic management and oriented toward the executive management level of telecommunications firms.

TELE 710 *Telecommunications Law and Regulatory Policy* (3 credits)

A treatment of basic telecommunications law, policy, and regulation.

TELE 750 *Coordinating Seminar* (3 credits)

Topics include specific telecommunications problems in management, law, engineering, education and communication. Focuses on the ways a problem in one area can create or solve a problem in other areas.

Elective Courses (2 Courses - 6 credits)

ITRN 604 *International Trade and Technology* (3 credits)

Examines science and technology policies and international trade, with an emphasis on their relationships and interactions. The roles of science and technology as economic drivers are assessed. Strategies employed by companies and governments to link research and

development to economic growth and competitiveness are explored. The research and development systems and technology-related trade policies of the United States, Japan, Europe, major developing countries, and selected newly industrialized economies are examined, with an emphasis on policies affecting trade and technology. Specific cases involving interactions between science, technology, and international trade are explored.

ITRN 730 *Information Technology Fundamentals for International Business and Trade* (3 credits)

This course deals with technology and issues relating to the emergence of computing, information, and telecommunications technologies in the mainstream of society. The aim is to provide a general understanding and facility with technologies of contemporary interest.

ITRN 737 *World Trade in Semiconductors and Information Technologies* (3 credits)

Examines bilateral and multilateral approaches to world trade in technology products. The U.S.-Japan Agreement on Semiconductors and its successor agreements are compared with those of the WTO. Also looks at the effects of the agreements on U.S. industry, their relevance to trade development, and commercial transactions.

ITRN 742 *Technology Policy and International Strategies* (3 credits)

Introduces the opportunities and problems created for organizations and society by the emerging Internet, and policies affecting the trajectory of Internet developments. Also cover technological factors in the planning horizon; domestic policy and international treaty factors affecting the Internet trajectory; and new horizons for Internet applications.

ITRN 769 *International Entrepreneurship* (3 credits)

(Prerequisites: ITRN 709 and 710, or permission of instructor) Introduces students to a practical planning approach for small and medium-size entrepreneurial firms seeking to enter the international marketplace. The course focuses on the key business and financial documents related to doing business overseas, and assesses the role of language, technology, and information systems in formulating a successful business strategy. Role-playing and simulated negotiations provide opportunities for students to sharpen their business skills.

ITRN 772 *International Telecommunications* (3 credits)

Focuses on developments in the field of international telecommunications and satellite regulation. The regulatory environment, and the business and financial aspects of the global telecommunications industry, are examined.

ITRN 773 *International Strategic Management* (3 credits)

Presents a comprehensive approach to international strategy formulation, implementation, and evaluation processes affecting policy and program development within multinational firms and government agencies. Integrates marketing, finance, accounting, and management. Covers techniques for forecasting international business, political, economic, technological, legal, and sociocultural forces.

ITRN 780 *Internship* (3 credits)

Open to authorized graduate majors only. Departmental and adviser approval are necessary before enrolling. Provides the student with a practical work experience in state, federal, or international agencies or the private sector. A written project that integrates the work experience and the student's academic program is required.

ITRN 790 *Independent Study* (3 credits)

Open to authorized graduate majors only. Departmental and advisor approval are necessary before enrolling. Provides students an opportunity to pursue intensive research in an area of particular interest not covered by other courses.

MBA 734 *Electronic Commerce* (3 credits)

Applies skills and knowledge in designing and building business-to-business or business-to-consumer web commerce site. Emphasizes products, strategies, and web site design.

MBA 736 *Managing Digital Business* (3 credits)

Develops strategic understanding of the new electronic marketplace. Emphasizes technical, legislative, and social issues influencing digital business. Studies changes in business processes and organizations enabled by electronic commerce technologies and applications.

PUBP 705 *Advanced Statistical Methods for Policy Research* (3 credits) (Prerequisite: PUBP 704) Covers classical regression methods and their application to public policy analysis. Simple and multiple regression, analysis of variance, time series, and simultaneous equation structural models. The problems associated with applications include specification error, multicollinearity,

qualitative variables, heteroskedasticity, serial correlation, and structural identification. The course allows students to develop analysis skills by discussing sample empirical studies and models using advance statistical computer software. Finally, students apply these methods to a term research project on data associated with government programs or public policy.

PUBP 736 *The Global Information Economy and the Digital Divide* (3 credits)

Discusses many of the institutional, social, and policy issues involved in the development of a global information economy and society. Economic development needs, public institutional capacity, nongovernmental networks examined critically, and course deals with the implications of universal access to the Internet and equality of use in areas such as online delivery of government services, privacy, online voting, and e-government. Focus also is on efforts to ameliorate digital divide sponsored by major multilateral agencies. Emphasizes development of public policies for democratic governance in a complex networked world.

PUBP 737 *Cases and Concepts in E-Government* (3 credits)

Electronic government has become a significant public policy issue worldwide. It offers the prospect of dramatic improvements in the delivery of government services, but also portends major debate about government intrusion. Course covers the emerging public policy issues associated with electronic government: job displacement in the public sector, privacy, procurement and supply chain management, voter profiling, scope of government services, challenges to “digital democracy,” Internet-based voting, land management, the “digital divide,” and others.

PUBP 738 *Information, Technology, and Institutional Change* (3 credits)

Examines role and character of information in institutions as foundation to understanding role of IT in economy, society and politics. Considers theories of and practice of information in institutions, organizations and markets, and assesses effects of information technology changes on key economic, social and political institutions such as firms, markets, communities, non-profit organizations, and government.

PUBP 739 *Media and Public Policy* (3 credits)

Explores the complex relationship between media and public policy. Examines how these forces collide in our modern media, how coverage decisions regarding public policy are made in newsrooms, how advocates use and rely on the media to advance their message, and how different media reflect different strengths and vulnerabilities.

PUBP 794 *Internship*

Open only to students in a SPP degree program requiring an internship. Contact appropriate program director one semester before enrollment. Work-study programs with specific employers. Credit determined by the appropriate degree program.

PUBP 796 *Directed Readings and Research*

Independent reading and research at the master’s or doctoral level on a specific topic related to public policy as agreed to by student and faculty member.

TCOM 500 *Modern Telecommunications* (3 credits)

A comprehensive overview of telecommunications, including current status and future directions. Topics include a review of the evolution of telecommunications; voice and data services; basics of signals and noise; digital transmission, network architecture and protocols; local area, metropolitan and wide area networks and narrow band ISDN, asynchronous transfer mode and broadband ISDN; and satellite systems, optical communications, cellular radio, personal communication systems, and multimedia services. Examples of real-life networks are provided to illustrate the basic concepts and gain further insight.

School of Public Policy Student Services

Advising

The Office of Student Services works in conjunction with faculty advisors to counsel students on academic issues through the exploration of the students' academic, career, and personal goals. The Student Services staff is available to assist students with course selection and the registration process as well as the interpretation of academic regulations and policies. The office also helps students track their progress towards degree completion and provides resource referral when students are in need of specialized assistance.

Career Development

The School of Public Policy (SPP) offers comprehensive career services at the Arlington campus. The Student Services staff provides one-on-one assistance reviewing resumes and cover letters, exploring your career goals, identifying employment opportunities, and providing you with the skills needed to do a successful career search. We publish a weekly Career Services Newsletter which includes information on job postings, local events, career fairs, and networking events.

A number of workshops and information sessions are offered every semester. Examples of past events include "Finding and Securing a Federal Government Job", Foreign Service Information Session, Job Search Strategies, Job Search Strategies for F-1 International Students, Peace Corp Information Session, "What is the Presidential Management Internship Program," and "Developing your KSA's for the Federal Government Application".

During the Spring semester, SPP sponsors an annual career fair on the Arlington campus. In recent years, employers in attendance have included: U. S. Department of State, The Heritage Foundation, Congressional Budget Office, Macfadden & Associates, Inc., US Department of Commerce, and Clean Water Action. For more information on upcoming Career Development workshops and events, and to view our newsletter go to: <http://policy.gmu.edu/career>.

Alumni Relations

We launched the SPP Alumni Association (SPPAA) in the Fall of 2002. We have 1300 alumni, 900 of whom reside in the DC metro area. We maintain a database of Chapter members who serve as a source of information, career guidance, and mentoring for current students. In addition, the chapter sponsors workshops, networking events, and socials. For more information on SPPAA, go to: <http://policy.gmu.edu/alumni>.

Internships

Internships provide an opportunity for students to gain real world, practical experience and professional skills that will complement their academic program and enhance their career opportunities. Past internship hosts have included the US Department of Commerce, Department of State, Office of Management and Budget, USDA Foreign Agricultural Service, the US International Trade Commission, the Academy for Academic Development, and the Benton Foundation. Internship credit is available to all of our degree seeking master's students. The Office of Student Services is available to assist you with your internship search.

GMU Libraries and Resources

GMU Libraries have a vast array of resources to support students and faculty in their academic endeavors. These materials come in various formats, including books, journals, newspapers and electronic resources. The latter are of particular importance and most databases are accessible to students from off-campus. These include products such as *Lexis-Nexis*, *Dow Jones Interactive*, *JSTOR*, and *Economist Intelligence Unit (EIU)*, among many others.

The GMU Arlington Campus Library is open from 8:00 a.m. to 10:00 p.m. weekdays, all day Friday and Saturday, and from 12:00 noon to 8:00 p.m. on Sunday. Professional librarians are available to serve GMU students, faculty and staff. The library supports 25 computer terminals, two photocopying machines, and two printers. GMU Libraries offer a personalized Ask-a-Librarian Service that enables patrons and a reference staff member to chat online in real-time. The service allows the reference staff to share web pages and other materials to assist patrons with their research.

As part of the Washington Research Library Consortium (WRLC), GMU students have use of major academic libraries in the Washington Metropolitan area, including The George Washington University, American University and Catholic University. Much of the document delivery from these universities is Web-based through the consortium loan service (CLS), as is interlibrary lending. (For a full list of the WRLC, see below.)

Further information can be obtained from GMU Libraries' website: <http://library.gmu.edu>

GMU Bookstores

GMU operates an Arlington Campus Bookstore. Both School of Public Policy and School of Law students, faculty, and staff can conveniently obtain required texts, educational supplies, and other items at the Arlington Campus. The GMU Arlington Bookstore hours are Monday-Thursday, 8:30 a.m. – 7:30 p.m. and Friday from 8:30 a.m. – 4:00 p.m.

M.A. Telecommunications Policy Admissions and Application Procedures

Applications are invited for Fall and Spring, for both full and part-time study. Applicants seeking degree admission to the **M.A. Telecommunications Policy** must follow the admissions procedures as outlined below.

Students may be admitted for non-degree study, which allows the student to take individual courses, and apply the courses to degree study in the Telecommunications Policy program.

The GMU graduate application process requires the applicant to submit a complete set of documents with the application. All application credentials must be received before the application will be reviewed. Please review pages 1-5 of the Graduate Application for more detailed instructions; to download a GMU graduate application visit: <http://admissions.gmu.edu/grad/>.

1. Graduate application and the \$60.00 online application fee (\$75 if applying via paper application). There are no fee waivers. **Please note** that when completing the online application, you will be required to submit this fee by credit card payment. Checks and money orders for paper applications should be made payable to: *George Mason University*.
2. A 750-1000 word written statement of student's goals and interest for the program.
3. A current resume.
4. A bachelor's degree from an accredited institution with a preferred GPA of 3.00 or higher (on a 4.0 scale). Submit 2 copies of official transcripts of all university work completed.
Students presenting international credentials must provide official transcripts, degree certificates or diplomas, and certified translations of the documents in English (if applicable).
5. Two letters of recommendation. At least one recommendation should be from an individual who is qualified to attest to the candidate's academic potential.
6. TOEFL scores (required for international applicants) – minimum score of 575 (paper-based), 230 (computer-based), or 88 (internet-based.) **Please note that students submitting internet-based exam results must earn a minimum score of 20 on each individual exam section. An official score report is required. In addition, students may be required to be tested by the GMU English Language Institute.
7. International Graduate Student Form (required for international applicants who are requesting an F-1 or J-1 visa) – submit completed form along with required supporting financial documents with your application.

Please Note: All students seeking funding consideration from the School of Public in the form of Merit-Based Scholarships are required to submit the Graduate Record Examination (GRE) scores. Those seeking Federal Financial Aid only are not required to submit GRE scores.

Application Deadlines: Applications are reviewed on a rolling basis; applicants are encouraged to apply early.

- **Fall** **Priority Deadline:** May 1: International Students*
June 1: Domestic Students

- **Spring** **Priority Deadline:** November 1: International Students*
December 1: Domestic Students

**Please adhere to the International Student deadlines if you have done your undergraduate or graduate study outside of the U.S.*

Submit ALL application materials to:
School of Public Policy - Graduate Admissions
3401 N. Fairfax Drive, MS 3B1
Arlington, VA 22201

To Contact Graduate Admissions: Telephone: (703) 993-8099, Email: spp@gmu.edu

For more information, please visit our School web site: <http://policy.gmu.edu>

George Mason University Financial Aid and Cost Information

George Mason University Federal Title IV School Code: 003749

For more information, visit the *GMU Financial Aid web site*: <http://financialaid.gmu.edu>

For more information, visit the *Student Accounts web site*: <http://studentaccounts.gmu.edu>

1. Complete the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA Application and mail it to the federal processing center **as soon as possible after January 1st of the year** for which you are applying to receive financial aid. ***You do not have to be admitted to a degree program to complete the FAFSA application.*** To determine if you are eligible for need-based financial aid and to establish eligibility for alternative non-need based financial aid resources, you must apply each year.

You may also use the electronic FAFSA Express software to submit your application electronically. Applications received by the processing center after March 1st for the next academic year are considered "late" and cannot be given priority consideration, and may be reviewed only for Federal Pell Grants, Federal Direct Stafford Loans, and Federal Direct Parent loans. The federal processor should receive FAFSA applications **by March 1** to be considered "on-time"; however, you may still submit your FAFSA application after this date.

You can complete the FAFSA using ESTIMATED income and tax figures. If necessary, do this rather than missing the priority filing date. Be prepared to provide complete copies of your Federal tax returns, tax schedules, and W-2 forms if requested

2. Approximately 4-6 weeks after you mail the application you will receive a Student Aid Report (SAR). You must review it, and if it is not correct, make appropriate corrections, sign it and send Part 2 back to the federal processor.

3. If additional information is required to process your file, you will receive a Missing Information Letter from the Office of Student Financial Aid. You should respond to this request as quickly as possible. Failure to respond in a timely manner can drastically affect the amount of aid that you are offered.

4. After all information is received by the Financial Aid Office you will receive an award eligibility notification in the mail. This will include the types and amounts of aid you are offered and instructions for applying for the Federal Direct Stafford Loan program. If you are found ineligible for need-based financial aid, information will be provided to assist you in applying for an Unsubsidized Federal Direct Stafford Loan and/or a Federal Direct Parent Loan. For on-time new incoming First Year Students, this award notification should arrive sometime in April. For on-time new transfer students and returning students, this award notification should arrive sometime after May 1st.

Graduate Tuition and Fees for the 2008-2009 Academic Year:

In-State graduate tuition and fees:	\$545.00/credit hour
Out-of-State graduate tuition and fee:	\$1,003.00/credit hour

Directions to the George Mason University – Arlington Campus

Parking:

Meter parking for Campus Visitors is available on surrounding streets. Parking in the GMU-Arlington campus parking lot is available only to faculty, staff, and registered students with a valid *Arlington* decal.

By Metro:

Take the Orange Line to the Virginia Square (GMU Law School) Metro Stop. Crossover N. Fairfax Dr. and go to the right one block. We are in the GMU red brick building, next to the FDIC Building. Enter at street level and the Student Services and Admissions Office is Suite 272 on the right.

By Car:

Via I-66 from D.C. - Take Interstate 66 West to Exit 71: Glebe Road/Ballston Exit in Arlington. Turn Left onto Glebe Road heading toward Ballston. Proceed to North Fairfax Drive. Turn LEFT onto North Fairfax Drive, proceed East for seven or eight blocks. You will see the GMU Campus on the LEFT (we are in the red brick building) next to the FDIC building.

Via I-66 from Fairfax - Take Interstate 66 East to Exit 71: Glebe Road/Ballston Exit in Arlington. The exit ramp turns into North Fairfax Drive. Proceed East for seven or eight blocks. You will see the GMU Campus on the LEFT (we are in the red brick building) next to the FDIC building.

Via I-395 from D.C. - Take I-95 South. Take exit 7: Glebe Road North. Take a right onto Quincy Street (just before you reach the Ballston Center Mall). Make a RIGHT at the next light (Quincy and N. Fairfax Dr.). Follow N. Fairfax Dr. down for three blocks. You will see the GMU Campus on the LEFT (we are in the GMU red brick building) next to the FDIC building and new GMU Law School.

Via I-95 from the South - Take I-395 North. Take exit 7: Glebe Road North. Take a right onto Quincy Street (just before you reach the Ballston Center Mall). Make a RIGHT at the next light (Quincy and N. Fairfax Dr.). Follow N. Fairfax Dr. down for three blocks. You will see the GMU Campus on the LEFT (we are in the GMU red brick building) next to the FDIC building and new GMU Law School.

Via the Beltway (495) - Take the Beltway/495 to I-66 toward D.C. Take Interstate 66 East to Exit 71: Glebe Road/Ballston Exit in Arlington. The exit ramp turns into North Fairfax Drive. Proceed east seven or eight blocks. You will see the GMU Campus on the LEFT (we are in the GMU red brick building) next to the FDIC building and new GMU Law School.