Twin Cities Campus
Development Practice M.D.P.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002).
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 50
- This program requires summer semesters for timely completion.
- Degree: Master of Development Practice

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The master of development practice (MDP) prepares students for careers in international development. The degree provides rigorous interdisciplinary training and equips students with the skills needed to address the problems of poverty and sustainable development in the developing world.

The MDP program is jointly administered by the Humphrey School of Public Affairs and the Interdisciplinary Center for the Study of Global Change (ICGC) and spans several academic units across the University of Minnesota. The degree provides training in policy analysis and management, health and education, natural sciences, social sciences, and interdisciplinary research methods. An international field experience and capstone workshop in development practice also are required.

The MDP degree is part of a global consortium of international development programs.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Other requirements to be completed before admission:
While no specific experience or academic pathway is required, students with a strong liberal education background and sound quantitative and analytical skills will be best prepared for academic success at the Humphrey School of Public Affairs.

Previous coursework in mathematics, statistics, and economics is recommended. Past applicants needing to strengthen this part of their skill set have found courses in introductory microeconomics, college algebra, and introductory statistics to be helpful preparation. Prior to admission students may find such courses available online; many are also available at the University of Minnesota.

International professional experience and foreign language competency are strongly preferred.

Special Application Requirements:
A complete application will include a University of Minnesota graduate application, personal statement, resume or C.V., transcripts, GRE scores, TOEFL scores, at least three letters of recommendation, and an optional diversity statement.

Applicants must submit their test score(s) from the following:
• GRE

International applicants must submit score(s) from one of the following tests:
• TOEFL
- Internet Based - Total Score: 100
- Paper Based - Total Score: 600
- IELTS - Total Score: 7

The preferred English language test is Test of English as Foreign Language

Key to test abbreviations (GRE, TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

Plan C: Plan C requires 50 major credits and up to null credits outside the major. There is no final exam. A capstone project is required.

Capstone Project: The capstone project is an opportunity for MDP students in their second year to apply their knowledge through a client-based team project. Each student team and the workshop instructor will work with an NGO or public sector client engaged in some dimension of international development, preferably situated in a developing country, to identify a suitable project. While the specifics of each project will vary, all will include in-depth research, analysis, and the creation of a professional written report. Student teams will be expected to develop an appropriate presentation of this product to the relevant stakeholders. The projects will be done by small groups and can have multiple dimensions. Students will have the opportunity to integrate various aspects of development such as economic development, public health, environmental sustainability, education and skills development, and citizen participation.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Core Courses

AGRO 5321 - Ecology of Agricultural Systems (3.0 cr)
MDP 5001 - Ways of Knowing for Sustainable Development (2.0 cr)
MDP 5002 - Program Development Workshop (3.0 cr)
MDP 5004 - International Field Experience (3.0 cr)
MDP 5005 - Qualitative Methods for Development Practice (3.0 cr)
MDP 5100 - Post-Field / Pre-Capstone Seminar (1.0 cr)
MDP 5200 - Capstone Workshop in Development Practice (3.0 cr)
PA 5031 - Statistics for Public Affairs (4.0 cr)
PA 5501 - Theories and Policies of Development (3.0 cr)
PA 5503 - Economics of Development (3.0 cr)
PA 5521 - Development Planning and Policy Analysis (4.0 cr)

Additional Methods

PA 5003 - Introduction to Financial Analysis and Management (1.5 cr)
or PA 5032 - Applied Regression (2.0 cr)
or PA 5044 - Applied Regression, Accelerated (2.0 cr)
or PA 5311 - Program Evaluation (3.0 cr)
or EPSY 5243 - Principles and Methods of Evaluation (3.0 cr)
or OLPD 5501 - Principles and Methods of Evaluation (3.0 cr)

International Education

OLPD 5104 - Strategies for International Development of Education Systems (3.0 cr)
or OLPD 5107 - Gender, Education, and International Development (3.0 cr)

Environmental Science

GEOG 5401 - Geography of Environmental Systems and Global Change (4.0 cr)
or GCC 5008 - Policy and Science of Global Environmental Change [ENV] (3.0 cr)

Leadership and Management

PA 5151 - Organizational Perspectives on Global Development & Humanitarian Assistance (3.0 cr)
or PA 5405 - Public Policy Implementation (3.0 cr)

Public Health

PUBH 6320 - Fundamentals of Epidemiology (3.0 cr)
or PUBH 6134 - Sustainable Development and Global Public Health (2.0 cr)

Electives
Electives to bring total degree credits to at least 50. See www.hhh.umn.edu/degrees/mdp/ for further information.
Twin Cities Campus

Early Childhood Policy Postbaccalaureate Certificate
HHH Social Policy Academic Program
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Humphrey School of Public Affairs, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2018
- Length of program in credits: 12
- This program does not require summer semesters for timely completion.
- Degree: Early Childhood Policy PBacc Cert

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The early childhood policy post-baccalaureate certificate gives students expertise in applying research-based knowledge to public policies affecting young children and the adults who care for them. In addition to completing coursework, students in the certificate program complete a capstone workshop or independent study focused on early childhood policy. These certificate components provide a vehicle for students to gain fundamental early childhood policy skills and knowledge and to foster connection between the University of Minnesota and the early childhood policy community. Students will have opportunities to participate in the work of the University of Minnesota's renowned Human Capital Research Collaborative.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

Other requirements to be completed before admission:
Admission to the certificate will be allowed in fall and spring semesters. Admission decisions will be made by a subcommittee of the faculty advisory group. A complete application will include a Graduate School application, personal statement, resume or C.V., and transcripts.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.8 is required for students to remain in good standing.

Early Childhood and Public Policy Course (3 credits)
Take one of the following courses for a total of 3 credits:
Electives (6 Credits)
Take one course from the Policy Electives list, and one course from the Open Electives list for a total of 6 credits.

Policy Electives (3 Credits)
Topics courses (such as PA 5490) are eligible if they cover early childhood.
- PA 5415 - Economics of Early Childhood Development (1.5 - 3.0 cr)
- PA 5442 - Education Law and Policy (3.0 cr)
- FSOS 8104 - Family Policy Seminar (3.0 cr)
- PREV 8001 - Prevention Science: Principles and Practices (3.0 cr)
- SW 5101 - Historical Origins and Contemporary Policies and Programs in Social Welfare (3.0 - 4.0 cr)
- SW 8804 - Child Welfare Policy (3.0 cr)

Open Electives (3 Credits)
Topics courses (such as PA 5490) are eligible if they cover early childhood.
- PA 5311 - Program Evaluation (3.0 cr)
- PA 5480 - Topics in Race, Ethnicity, and Public Policy (1.0 - 3.0 cr)
- CI 8900 - Family, Youth, and Community Colloqium (1.0 - 4.0 cr)
- CPSY 5251W - Social and Philosophical Foundations of Early Childhood Education [WI] (3.0 cr)
- CPSY 5252 - Facilitating Social and Emotional Learning in Early Childhood Education (3.0 cr)
- CPSY 5253 - Facilitating Cognitive and Language Learning in Early Childhood Education (3.0 cr)
- CPSY 5254 - Facilitating Creative and Motor Learning in Early Childhood Education (2.0 cr)
- EPSY 5221 - Principles of Educational and Psychological Measurement (3.0 cr)
- EPSY 5243 - Principles and Methods of Evaluation (3.0 cr)
- EPSY 5625 - Education of Infants, Toddlers, and Preschool Children with Disabilities: Introduction (2.0 cr)
- EPSY 5849 - Multi-tiered Systems of Support in Early Childhood Education (3.0 cr)
- FSOS 5032 - Family Systems Theories and Interventions (3.0 cr)
- FSOS 8106 - Seminar: Families From an Economic Perspective (3.0 cr)
- NURS 5032 - Human Response to Health and Illness: Children and Childbearing Families (5.0 cr)
- OLPD 5346 - Politics of Education (3.0 cr)
- OLPD 5356 - Disability Policy and Services (3.0 cr)
- OLPD 5501 - Principles and Methods of Evaluation (3.0 cr)
- OLPD 8015 - Inquiry strategies in educational and organizational research (3.0 cr)
- OLPD 8016 - Research Design and Educational Policy (3.0 cr)
- OLPD 8087 - Seminar: Organizational Leadership, Policy, and Development (1.0 - 3.0 cr)
- OLPD 8095 - Problems: Organizational Leadership, Policy, and Development (1.0 - 3.0 cr)
- OLPD 8302 - Educational Policy Perspectives (3.0 cr)
- POL 8602 - Families, Children, and the State (3.0 cr)
- PUBH 6606 - Children's Health: Issues, Programs, and Policies (2.0 cr)
- PUBH 6607 - Adolescent Health: Issues, Programs, and Policies (2.0 cr)
- PUBH 6613 - Children and Youth With Special Health Care Needs (2.0 cr)
- PUBH 6630 - Foundations of Maternal and Child Health Leadership (3.0 cr)
- PUBH 6634 - Children and Families: Public Health Policy and Advocacy (2.0 cr)
- PUBH 6655 - Principles and Programs in Maternal and Child Health (2.0 cr)
- PUBH 6945 - From Kid to Community: Personal, Environmental, and Policy Interventions Targeting Youth Obesity (1.0 cr)
- SW 5905 - Permanency in Child Welfare (2.0 cr)
- SW 8383 - Social Work in Child Welfare (3.0 cr)

Final Paper (3 Credits)
The final paper can be completed by taking PA 8081, 8082, 8921 or 8991. The paper must have a focus on early childhood policy. Papers may be completed under other designators by permission.
- PA 8081 - Capstone Workshop (3.0 cr)
- or PA 8082 - Professional Paper-Writing Seminar (3.0 cr)
- or PA 8921 - Master's: Professional Paper (Individual Option) (1.0 - 3.0 cr)
- or PA 8991 - Independent Study (0.5 - 4.0 cr)
Twin Cities Campus
Election Administration Postbaccalaureate Certificate
HHH Politics and Governance Academic Program
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Humphrey School of Public Affairs, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2018
- Length of program in credits: 12
- This program does not require summer semesters for timely completion.
- Degree: Election Administration PBacc Certificate

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The election administration post-baccalaureate certificate prepares students across the country for mid-career positions in election administration. Students will acquire and develop the skills and knowledge of election operations and procedures they need to serve as election staff or to further their existing careers in election administration. All courses are offered in an on-line format and include topics such as election law, election design, and voter participation.

Program Delivery
This program is available:
- completely online (all program coursework can be completed online)

Prerequisites for Admission
Other requirements to be completed before admission:
Admission to the certificate will be allowed in fall and spring semesters. Admission decisions will be made by a subcommittee of the faculty advisory group. The application must include a personal statement, resume or C.V., and transcripts.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.8 is required for students to remain in good standing.

Core
- PA 5971 - Survey of Election Administration (3.0 cr)
- PA 5972 - Elections and the Law (3.0 cr)
- PA 5973 - Strategic Management of Election Administration (2.0 cr)
- PA 5974 - Election Administration Capstone Project (2.0 cr)

Electives

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Information current as of August 31, 2018
Take 2 or more credit(s) from the following:
• PA 5975 - Election Design (2.0 cr)
• PA 5976 - Voter Participation (1.0 cr)
• PA 5982 - Data Analysis for Election Administration (2.0 cr)
• PA 5983 - Cybersecurity and Elections (1.0 cr)
Twin Cities Campus
Human Services Leadership Postbaccalaureate Certificate
HHH Leadership and Management Academic Program
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2018
- Length of program in credits: 12
- This program does not require summer semesters for timely completion.
- N/A

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Human service professionals face extraordinary challenges that require innovative thinking and an interdisciplinary approach. The certificate in human services leadership provides mid-career professionals knowledge and skills in leadership, public policy, and public service redesign for greater success plus increased potential for advancement to serve in mid- to senior-level leadership positions in county, state, and nonprofit agencies. Designed with input from industry leaders, the program is intended for working professionals involved in human service program development and delivery. The program allows students to complete a professional 12-credit graduate-level certificate that can serve as a stepping stone to the mid-career master of public affairs degree.

Accreditation
This program is accredited by N/A

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Special Application Requirements:
At least 8 years of post-baccalaureate professional work experience. Pre-baccalaureate experience may be considered for applicants with a significant gap between completion of high school and the bachelor's degree. Sufficient prior academic preparation as demonstrated in a four-year bachelor's degree. A complete application will include a University of Minnesota application, personal statement, resume or C.V., transcripts, TOEFL scores (if applicable), at least three letters of recommendation, and a diversity statement.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Internet Based - Listening Score: 25
  - Internet Based - Writing Score: 25
  - Internet Based - Reading Score: 25
  - Internet Based - Speaking Score: 25
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7
- MN Batt

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The University of Minnesota is an equal opportunity educator and employer.
Information current as of August 31, 2018
Key to test abbreviations (TOEFL, IELTS, MN Batt).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.8 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Required Coursework
- PA 5161 - Human-Centered Service Redesign (3.0 cr)
- PA 5162 - Public Service Redesign Workshop (3.0 cr)

Elective Courses
- PA 5190 is limited to "Leading Across Boundaries" (2 cr).
- Take 6 or more credit(s) from the following:
  - PA 5011 - Management of Organizations (3.0 cr)
  - PA 5103 - Leadership and Change (3.0 cr)
  - PA 5137 - Project Management in the Public Arena (1.5 cr)
  - PA 5190 - Topics in Public and Nonprofit Leadership and Management (1.0 - 3.0 cr)
  - PA 5311 - Program Evaluation (3.0 cr)
  - PA 5405 - Public Policy Implementation (3.0 cr)
  - PA 5421 - Racial Inequality and Public Policy (3.0 cr)
  - PA 5927 - Effective Grantwriting for Nonprofit Organizations (1.5 cr)
  - OLPD 5011 - Leading Organizational Change: Theory and Practice (3.0 cr)
  - PA 5145 - Civic Participation in Public Affairs (3.0 cr)
  - or PA 5253 - Designing Planning and Participation Processes (3.0 cr)
  - GCC 5023 - Grand Challenge: Leading Across Sectors to Address Grand Challenges [CIV] (3.0 cr)
  - or PA 5105 - Integrative Leadership Seminar (3.0 cr)
**Twin Cities Campus**

Nonprofit Management Postbaccalaureate Certificate

**HHH Administration**

Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

**Contact Information:**
Graduate Student Services, Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002).
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2018
- Length of program in credits: 13
- This program does not require summer semesters for timely completion.
- Degree: Nonprofit Management PBacc Cert

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The nonprofit management certificate program is designed for both current students and professionals who are employed in nonprofit organizations, especially persons who do not have a formal educational background in managing and leading a nonprofit organization. Students acquire knowledge and skills in effective leadership and management, organizational development, nonprofit governance, strategic planning, policy analysis, human resource development, finance, and fundraising. This program offers a wide array of elective courses appropriate to a broad range of nonprofit settings.

**Program Delivery**
This program is available:
- via classroom (the majority of instruction is face-to-face)

**Prerequisites for Admission**
The preferred undergraduate GPA for admittance to the program is 3.00.

A bachelor's degree from an accredited institution.

Other requirements to be completed before admission:
2 or more years experience as paid or volunteer staff member with nonprofit organizations.

**Special Application Requirements:**
A complete application will include a University of Minnesota application, personal statement, resume or C.V., and transcripts.

International applicants must submit score(s) from one of the following tests:
- **TOEFL**
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- **IELTS**
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

**Program Requirements**
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.
13 credits of coursework are required, including 7.5 credits of required courses. Required courses must be taken for a letter grade. In consultation with the faculty adviser, remaining elective credits are chosen to meet the student's individual goals and interests.

Required Core Courses (7.5 credits)
- PA 5003 - Introduction to Financial Analysis and Management (1.5 cr)
- PA 5251 - Strategic Planning and Management (3.0 cr)
- PA 5101 - Management and Governance of Nonprofit Organizations (3.0 cr)

Electives
Students should take at least 5.5 credits from Electives. OTHER COURSES ALLOWED WITH ADVISOR APPROVAL.

Take 2 or more course(s) from the following:
- PA 5102 - Organization Performance and Change (3.0 cr)
- PA 5103 - Leadership and Change (3.0 cr)
- PA 5104 - Strategic Human Resource Management (3.0 cr)
- PA 5107 - Board leadership development (1.0 cr)
- PA 5114 - Budget Analysis in Public and Nonprofit Orgs (1.5 cr)
- PA 5116 - Financing Public and Nonprofit Organizations (1.5 cr)
- PA 5123 - Philanthropy in America: History, Practice, and Trends (3.0 cr)
- PA 5135 - Managing Conflict: Negotiation (3.0 cr)
- PA 5137 - Project Management in the Public Arena (1.5 cr)
- PA 5144 - Social Entrepreneurship (3.0 cr)
- PA 5145 - Civic Participation in Public Affairs (3.0 cr)
- PA 5151 - Organizational Perspectives on Global Development & Humanitarian Assistance (3.0 cr)
- PA 5190 - Topics in Public and Nonprofit Leadership and Management (1.0 - 3.0 cr)
- PA 5311 - Program Evaluation (3.0 cr)
- PA 5405 - Public Policy Implementation (3.0 cr)
- PA 5920 - Skills Workshop (0.5 - 4.0 cr)
- PA 5927 - Effective Grantwriting for Nonprofit Organizations (1.5 cr)
- OLPD 5501 - Principles and Methods of Evaluation (3.0 cr)
- OLPD 5607 - Organization Development (3.0 cr)
- OLPD 8020 - Leadership: From Theory to Reflective Practice (3.0 cr)
- OLPD 8703 - Public Policy in Higher Education (3.0 cr)
- PUBH 6557 - Health Finance I (3.0 cr)
- PUBH 6727 - Health Leadership and Effecting Change (2.0 cr)
- PUBH 6751 - Principles of Management in Health Services Organizations (2.0 cr)
- SW 5562 - Global Social Work and Social Development (3.0 cr)
- SW 5904 - Facilitation and Conflict Management: Humanistic Approach (2.0 cr)
- SW 8551 - Advanced Community Practice: Assessment, Organizing, and Advocacy (3.0 cr)
- SW 8552 - Advanced Community Practice: Leadership, Planning, and Program Development (3.0 cr)
- SW 8561 - Human Resources Management in Human Services Agencies (3.0 cr)
- SW 8562 - Human Services Finances (2.0 cr)
- SW 8563 - Advanced Policy Advocacy (3.0 cr)
- SW 8804 - Child Welfare Policy (3.0 cr)
- SW 8805 - Aging and Disability Policy (3.0 cr)
- SW 8806 - Health and Mental Health Policy (3.0 cr)
- SW 8807 - International and Comparative Social Welfare Policy (3.0 cr)
- SW 8902 - Social Work Supervision, Consultation, and Leadership (2.0 cr)
- PA 5105 - Integrative Leadership Seminar (3.0 cr)
  or LAW 6623 - Integrative Leadership: From Theory to Practice (3.0 cr)
  or MGMT 6402 - Integrative Leadership: From Theory to Practice (3.0 cr)
  or OLPD 6402 - Integrative Leadership Seminar (3.0 cr)
  or PUBH 6702 - Integrative Leadership Seminar (3.0 cr)
Twin Cities Campus
Policy Issues on Work and Pay Postbaccalaureate Certificate
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Graduate Student Services, Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Ave S, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

• Program Type: Post-baccalaureate credit certificate/licensure/endorsement
• Requirements for this program are current for Fall 2018
• Length of program in credits: 15
• This program does not require summer semesters for timely completion.
• Degree: Policy Issues on Work and Pay PBacc Cert

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The Policy Issues in Work and Pay certificate provides an understanding of, and the ability to evaluate and develop, federal, state, and local policies that affect the employment relationship. Students learn about the role of government in the employment relationship, including statutes, and how employers, unions, and the government interpret and utilize policies. Core courses are drawn from the Humphrey School of Public Affairs as well as the Center for Human Resources and Labor Studies in the Carlson School of Management, with auxiliary courses in law, history, sociology, and applied economics.

The certificate consists of at least 15 credits. Students complete 10 elective credits that allow them to focus on the area of public policy that is most relevant to their professional and educational goals and needs. Some elective courses require prerequisites, which do not count toward the certificate.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

Mathematics courses at least through algebra; a one-semester course in microeconomics.

Special Application Requirements:
A complete application will include a Graduate School application, personal statement, resume or C.V., transcripts, and a diversity statement.

International applicants must submit score(s) from one of the following tests:
• TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
• IELTS
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.
Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Required Courses (6 credits)
- Public Policies on Work and Pay
  - PA 5431 - Public Policies on Work and Pay (3.0 cr)
  - or HRIR 5655 - Public Policies on Work and Pay (3.0 cr)
- Social Safety Nets/Social Insurance Programs
  Must take PA 5022: Economics of Social Insurance Programs (3 cr) to satisfy this requirement.
  - PA 5022 - Applications of Economics for Policy Analysis (1.5 - 3.0 cr)

Elective Courses (9 credits)
- Take at least 9 credits from the following list, or select other elective coursework with the approval of the director of graduate studies.
  - HRIR 5222 - Managing Diversity (2.0 cr)
  - HRIR 5252 - Employment and Labor Law for the HRIR Professional (2.0 cr)
  - HRIR 6701 - Labor Relations and Collective Bargaining (4.0 cr)
  - PA 5401 - Poverty, Inequality, and Public Policy (3.0 cr)
  - PA 8386 - Research Methods in Public Policy (2.0 cr)
  - APEC 5511 - Labor Economics (3.0 cr)
  - LAW 6203 - Labor Law (2.0 cr)
  - LAW 6625 - Disability in the Workplace (3.0 cr)
  - LAW 6631 - Employment Discrimination (3.0 cr)
  - LAW 6632 - Employment Law (3.0 cr)
  - LAW 6833 - Alternative Dispute Resolution (2.0 - 3.0 cr)
  - SOC 8421 (Inactive) (3.0 cr)
Twin Cities Campus
Public Affairs Leadership Postbaccalaureate Certificate
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Post-baccalaureate credit certificate/licensure/endorsement
- Requirements for this program are current for Fall 2018
- Length of program in credits: 12
- This program does not require summer semesters for timely completion.
- Degree: Public Affairs Leadership PBac Certificate

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The Certificate in Public Affairs Leadership offers mid-career professionals specific knowledge and skills in leadership, management, public policy, and analysis to succeed in today's challenging environment. Intended for working professionals, the program allows students to complete a professional certificate in an integrative cohort format in nine months. The certificate stands on its own or can be a stepping stone to the mid-career Master of Public Affairs degree. The Certificate in Public Affairs Leadership is offered in a unique combination of on campus and online sessions, making it convenient for students from outside of the Twin Cities area to participate. The program starts with an intensive, introductory week in August, followed by monthly Friday-Saturday meetings from September to May. This cohort approach combines the intensity and depth of in-person instruction paired with the convenience of online coursework.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

A four-year bachelor's degree from an accredited U.S. university or foreign equivalent at time of enrollment is required.

Other requirements to be completed before admission:
At least 10 years of post-baccalaureate professional work experience is preferred and highly recommended. Pre-baccalaureate experience may be considered for applicants with a significant gap between completion of high school and the bachelor's degree. Sufficient prior academic preparation as demonstrated in a four-year bachelor's degree.

A complete application will include a University of Minnesota application, personal statement, resume or C.V., transcripts, TOEFL scores (when applicable), at least three letters of recommendation, and a diversity statement.

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.
Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

Required Courses
PA 5051 - Public Affairs Leadership I (2.0 cr)
PA 5052 - Public Affairs Leadership II (2.0 cr)
PA 5053 - Policy Analysis in Public Affairs (2.0 cr)
PA 5054 - Program Design and Implementation Analysis (2.0 cr)
PA 5055 - Qualitative Research Methods and Analysis (2.0 cr)
PA 5056 - Quantitative Research Methods and Analysis (2.0 cr)
Twin Cities Campus
Public Affairs M.P.A.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue S, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 30
- This program does not require summer semesters for timely completion.
- Degree: Master of Public Affairs

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The master of public affairs (MPA) is intended for mid-career professionals, and prepares them for public leadership and policy making. The program is typically completed in two to three years of part-time enrollment. The program can be completed in one calendar year (fall, spring, summer semesters) by attending full-time. Courses in a self-designed concentration provide a knowledge base and skills to achieve career goals. Concentration courses can be from Public Affairs and from the 150+ graduate programs across the University of Minnesota. Required courses in this degree are taken in a cohort format. The cohort meets on campus one full week in August, one Friday/Saturday each month (September-May), and online throughout the year.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.
A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Special Application Requirements:
At least 10 years of post-baccalaureate professional work experience is preferred and highly recommended. Pre-baccalaureate experience may be considered for applicants with a significant gap between completion of high school and the bachelor's degree. Applicants must demonstrate sufficient prior academic preparation as demonstrated in a four-year bachelor's degree. A complete application will include a University of Minnesota application, personal statement, resume or C.V., transcripts, TOEFL scores (if applicable), at least three letters of recommendation, and an optional diversity statement.

International applicants must submit score(s) from one of the following tests:
• TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
• IELTS
  - Total Score: 7

Key to test abbreviations (TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Plan C: Plan C requires 30 major credits and up to null credits outside the major. The is no final exam. A capstone project is required.
Capstone Project: The capstone project is designed to provide a learning opportunity for students to apply their knowledge through a client-based team project. The workshop includes a written report for the client and an oral presentation to the client that summarizes the major findings of the semester-long study.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Required Core Courses (12 credits)
- PA 5051 - Public Affairs Leadership I (2.0 cr)
- PA 5052 - Public Affairs Leadership II (2.0 cr)
- PA 5053 - Policy Analysis in Public Affairs (2.0 cr)
- PA 5054 - Program Design and Implementation Analysis (2.0 cr)
- PA 5055 - Qualitative Research Methods and Analysis (2.0 cr)
- PA 5056 - Quantitative Research Methods and Analysis (2.0 cr)

Capstone Project
- PA 5080 - Capstone Preparation Workshop (1.0 cr)
- PA 8081 - Capstone Workshop (3.0 cr)

Remaining Credits (14)
MPA students self-design a concentration, choosing from a wide variety of classes, including skills courses in management, analysis, and planning; courses in such areas as global policy; social policy; economic and community development; science, technology, and environmental policy; and urban and regional policy and planning; or courses from more than 150 different graduate programs in the University of Minnesota system.
Twin Cities Campus
Public Affairs, Ph.D.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue S, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhphd@umn.edu
Website: http://www.hhh.umn.edu/degrees/phd/

- Program Type: Doctorate
- Requirements for this program are current for Fall 2018
- Length of program in credits: 66
- This program does not require summer semesters for timely completion.
- Degree: Doctor of Philosophy

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The doctor of philosophy (PhD) in public affairs offers students opportunities for rigorous, advanced study in the areas of public affairs, policy analysis, and planning. The goal of the PhD program is to train researchers who will enter academia or join highly respected public or nonprofit institutions involved in cutting edge research in public affairs, policy, planning, and management. Successful applicants to the program will be clear about the research they wish to undertake and why they think the Humphrey School is the best place to do that research. Students are expected to make original theoretical, methodological, or substantive contributions in the area of their specialization (sub-plans). Sub-plans are offered in public policy; urban planning; management and governance; and science, technology, and environmental policy. Students will be expected to complete the degree program within five years.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.50.

Other requirements to be completed before admission:
The general requirement is the capability to pursue PhD-level work. Typically, an applicant should have an academic record from a recognized college that includes undergraduate coursework in microeconomics and mathematics (either calculus, statistics, or algebra).

Special Application Requirements:
A complete application will include a U of MN graduate application, a personal statement that includes motivation for pursuing doctoral studies, a resume or C.V., transcripts, GRE scores, a writing sample, TOEFL scores (if applicable), and at least three letters of recommendation.

Applicants must submit their test score(s) from the following:
- GRE

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7

The preferred English language test is Test of English as Foreign Language

Key to test abbreviations (GRE, TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the
Program Requirements
42 credits are required in the major.
24 thesis credits are required.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 3.0 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Practical teaching experience: Each candidate must complete training in pedagogy and a teaching experience as a course instructor or teaching assistant (TA) with instructional responsibilities. The pedagogical training may take place prior to or concurrent with the teaching experience. Evidence of English-speaking proficiency is required prior to the teaching experience.

Dissertation requirement: Each candidate must complete original academic research and fulfill a dissertation requirement by completing either an academic thesis or three related academic papers that are judged by the student's committee to be of publishable quality.

Core Courses
Key concepts, literature, and research questions of public affairs. PA 8006 (1.5 credits) is taken two semesters for total of 3 credits.
PA 8003 - Integrative Doctoral Seminar in Public Affairs I (3.0 cr)
PA 8004 - Integrative Doctoral Seminar in Public Affairs II (3.0 cr)
PA 8005 - Doctoral Research Seminar in Public Affairs (3.0 cr)
Take exactly 3 credit(s) from the following:
• PA 8006 - Current Research in Public Affairs: Topics, Approaches, and Cultures (1.5 cr)

Research Methods
Take 4 or more courses totaling 12 or more credits, including at least one course each in: research design, quantitative methods, and qualitative methods. Courses are chosen in consultation with advisor based on student's background and research interests. Students may use previous graduate-level coursework for up to three of the four methods courses (up to 9 credits) with approval of PhD program director.

Academic Sub-plan
Students are required to complete one of four sub-plans consisting of a minimum of 18 credits, as described below. Sub-plans offer students the opportunity for advanced, rigorous study in the theory, methods, and practice in their field. Students may use up to 18 credits of previous graduate-level coursework to fulfill sub-plan requirements.

Doctoral Thesis Credits
Take 24 or more credit(s) from the following:
• PA 8888 - Thesis Credit: Doctoral (1.0 - 24.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans. Students may not complete the program with more than one sub-plan.

Management and Governance
Required Courses
PA 8106 - Research Seminar in Management, Leadership & Governance (3.0 cr)
PA 5012 - The Politics of Public Affairs (3.0 cr)
Electives
12 credits in the area of public and nonprofit leadership and management. Courses are chosen in consultation with advisor based on student's background and research interests.

Public Policy
The public policy sub-plan is a self-designed set of topic-based courses (minimum 18 credits) determined by the student and advisor with the consent of the other faculty in the sub-plan area.
Science, Technology, and Environmental Policy

PA 8706 or PA 5711
- PA 8706 - Interdisciplinary Research Seminar on Science, Technology, and Environmental Policy (3.0 cr)
- or PA 5711 - Science, Technology & Environmental Policy (3.0 cr)

PA 8707 or PA 5752
- PA 8707 - Interdisciplinary Sustainability Systems Research Seminar (3.0 cr)
- or PA 5752 - Material-Energy Flows & Sustainable Development (3.0 cr)

Focus Group
- PA 5721 - Energy Systems and Policy (3.0 cr)
- or PA 5723 - Water Policy (3.0 cr)
- or PA 5724 - Climate Change Policy (3.0 cr)
- or PA 5731 - Emerging Sciences and Technologies: Law, Ethics and Policy (3.0 cr)
- or PA 5751 - Urban Infrastructure Systems for Sustainable and Healthy Cities (3.0 cr)

Environmental and Sustainability Systems
One course (at least 3 credits of coursework at the 8000-level, or advisor permission) providing depth in environmental and sustainability systems, such as:
- Health & well-being, environmental psychology
- Climate, environment and eco-system studies
- Environmental economics, applied economics
- Industrial ecology
- Models, scenarios, risk, uncertainty, decision analysis
Examples of courses offered in U of M departments related to these topics are available from faculty advisors.

Policy Process and Implementation
One course (at least 3 credits of coursework at the 8000-level, or advisor permission) providing depth in policy process and implementation, covering topics such as:
- Law, regulations, science and innovation policy
- Politics of public affairs
- Urban environmental planning
- Leadership and management
- Global policy
- Public finance, budgeting
- Policy implementation and evaluation
Examples of courses offered in U of M departments related to these topics are available from faculty advisors.

Additional electives (at least 3 credits) to be selected in consultation with your advisor.

Urban Planning

Required Courses
- PA 8206 - Planning Theory (3.0 cr)
- PA 5204 - Urban Spatial and Social Dynamics (3.0 cr)

Urban Planning Electives
Four additional courses, for at least 12 credits, to be determined by student and advisor. Students must demonstrate proficiency in GIS.
Twin Cities Campus
Public Policy M.P.P.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

• Program Type: Master's
• Requirements for this program are current for Fall 2018
• Length of program in credits: 45
• This program does not require summer semesters for timely completion.
• Degree: Master of Public Policy

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The master of public policy (MPP) curriculum is built upon a core of required theoretical and methodological courses. In remaining courses, students choose either to emphasize more advanced study of analysis or management, or to focus on a particular substantive area of public policy. Structured concentrations include advanced policy analysis methods; economic and community development; gender and public policy; global public policy; human rights; politics and governance; public and nonprofit leadership and management; science, technology, and environmental policy; and social policy. Students have multiple opportunities to apply the concepts learned in their coursework to real-life policy problems, including cases presented in courses, their internships, and workshops. Dual degrees include MPP/master of business administration; MPP/juris doctor; MPP/master of public health; and MPP/master of social work.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Other requirements to be completed before admission:
While no specific experience or academic pathway is required, students with a strong liberal education background and sound quantitative and analytical skills will be best prepared for academic success at the Humphrey School of Public Affairs.

Previous coursework in mathematics, statistics, and economics is recommended. Past applicants needing to strengthen this part of their skill set have found courses in introductory microeconomics, college algebra, and introductory statistics to be helpful preparation.

Special Application Requirements:
A complete application will include a University of Minnesota application, personal statement, resume or C.V., transcripts, GRE scores, TOEFL scores (if applicable), at least three letters of recommendation, and an optional diversity statement.

Applicants must submit their test score(s) from the following:
• GRE

International applicants must submit score(s) from one of the following tests:
• TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
• IELTS
  - Total Score: 7

Key to test abbreviations (GRE, TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the
Program Requirements

Plan C: Plan C requires 45 major credits and 0 credits outside the major. There is no final exam.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Core

- PA 5011 - Management of Organizations (3.0 cr)
- PA 5012 - The Politics of Public Affairs (3.0 cr)
- PA 5021 - Microeconomics for Policy Analysis (3.0 cr)
- PA 5002 - Introduction to Policy Analysis (1.5 cr)
- PA 5003 - Introduction to Financial Analysis and Management (1.5 cr)

Statistics

- PA 5031 - Statistics for Public Affairs (4.0 cr)
  or PA 5045 - Statistics for Public Affairs, Accelerated (4.0 cr)

Economics

Take 3 or more credit(s) from the following:
- PA 5022 - Applications of Economics for Policy Analysis (1.5 - 3.0 cr)
- PA 5431 - Public Policies on Work and Pay (3.0 cr)
- PA 5503 - Economics of Development (3.0 cr)
- PA 5521 - Development Planning and Policy Analysis (4.0 cr)
- PA 5722 - Economics of Natural Resource and Environmental Policy (3.0 cr)
- PA 5805 - Global Economics (3.0 cr)

Methods

- PA 5032 - Applied Regression (2.0 cr)
  or PA 5044 - Applied Regression, Accelerated (2.0 cr)
- PA 5033 - Multivariate Techniques (2.0 cr)
  or PA 5041 - Qualitative Methods for Policy Analysts (4.0 cr)

Concentration: 9-12 credits

Global policy concentration requires 12 credits. All other concentrations require 9 credits.

Professional Paper

Professional paper through a capstone workshop, working group, or master's: professional paper (individual option).
- PA 8081 - Capstone Workshop (3.0 cr)
  or PA 8082 - Professional Paper-Writing Seminar (3.0 cr)
  or PA 8921 - Master's: Professional Paper (Individual Option) (1.0 - 3.0 cr)

Electives

Electives to bring total credits to 45.

Joint- or Dual-degree Coursework: This program offers options for four dual degrees. Each dual degree option within the MPP allows for a different number of credits in common between the two programs: MPP/MBA: 24 credits in common allowed; MPP/JD: 29 credits in common allowed; MPP/MPH - Public Health Practice: 26 credits in common allowed; MPP/MSW: 21 credits in common allowed for full program, 15 for advanced standing, 11 for direct practice.

Program Sub-plans

A sub-plan is not required for this program. Students may not complete the program with more than one sub-plan.
Twin Cities Campus
Public Policy Minor
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Student Services, Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2018
- Length of program in credits (Masters): 9
- Length of program in credits (Doctorate): 12
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The public policy curriculum is built upon a core of required theoretical and methodological courses. In coursework, students study policy analysis or management or focus on a substantive area of public policy. Substantive areas include advanced policy analysis methods; economic and community development; global public policy; human rights; politics and governance; public and nonprofit leadership and management; public finance and budgeting; science, technology, and environmental policy; social policy; and gender and public policy. Students have multiple opportunities to apply the concepts learned to real-life policy problems.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

Specific coursework for the minor is chosen in consultation with the student's minor advisor or the public policy director of graduate studies. Students are required to take a minimum of three credits from the public policy MPP curriculum. Up to 3 credits may be taken on an S/N grade basis. All other courses must be completed with grades of B or better.

Program Sub-plans
Students are required to complete one of the following sub-plans.
Students may not complete the program with more than one sub-plan.

Masters
Required Coursework
Students pursuing the master's-level minor must complete 9 credits from the following:
- PA 5xxx
- PA 8xxx

Doctoral
Required Coursework
Students pursuing the doctoral-level minor must complete at least 12 credits from the following:
- PA 5xxx
Twin Cities Campus
Science, Technology, and Environmental Policy M.S.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 36 to 41
- This program does not require summer semesters for timely completion.
- Degree: Master of Science

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The MS in science, technology, and environmental policy (STEP) provides students with an understanding of the role of science and technology in society, including food and agriculture, the economy, energy and the environment, security, health, and education; the impact of science and technology on the political and economic relationships within and among nations; and the analysis and design of policies for appropriate promotion and regulation of science and technology regionally, nationally, and internationally. The program educates students with natural and social science backgrounds to assume roles in public policy development.

Program Delivery
This program is available:
• via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Other requirements to be completed before admission:
While no specific experience or academic pathway is required, students with a strong liberal education background and sound quantitative and analytical skills will be best prepared for academic success at the Humphrey School of Public Affairs.

Previous coursework in mathematics, statistics, and economics is recommended. Past applicants needing to strengthen this part of their skill set have found courses in introductory microeconomics, college algebra, and introductory statistics to be helpful preparation.

Applicants applying to the MS-STEP program should have completed a degree or taken advanced level coursework in the natural or engineering sciences prior to the date of their planned enrollment.

Special Application Requirements:
A complete application will include a University of Minnesota application, personal statement, resume or C.V., transcripts, GRE scores, TOEFL scores (if applicable), at least three letters of recommendation, and an optional diversity statement.

Applicants must submit their test score(s) from the following:
• GRE

International applicants must submit score(s) from one of the following tests:
• TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
• IELTS
  - Total Score: 7

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Information current as of August 31, 2018
Key to test abbreviations(GRE, TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements

**Plan A:** Plan A requires 29 to 31 major credits, 0 credits outside the major, and 10 thesis credits. The final exam is oral.

**Plan C:** Plan C requires 36 major credits and up to null credits outside the major. The is no final exam.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

Elective credits are chosen in consultation with the student's advisor.

**Science, Technology, and Environmental Policy Overview**

- PA 5711 - Science, Technology & Environmental Policy (3.0 cr)
- PA 5715 - Survey of Current Issues in Science, Technology, and Environmental Policy (1.5 cr)

**Sustainability Systems Science**

- PA 5722 - Economics of Natural Resource and Environmental Policy (3.0 cr)
- PA 5741 - Risk, Resilience and Decision Making (1.5 cr)
- PA 5752 - Material-Energy Flows & Sustainable Development (3.0 cr)

**Social and Policy Processes**

- PA 5002 - Introduction to Policy Analysis (1.5 cr)
- PA 5012 - The Politics of Public Affairs (3.0 cr)

**Foundational Methods**

**Statistics**

- PA 5031 - Statistics for Public Affairs (4.0 cr)
- or PA 5045 - Statistics for Public Affairs, Accelerated (4.0 cr)

*Take one of the following:*

- PA 5032 - Applied Regression (2.0 cr)
- or PA 5044 - Applied Regression, Accelerated (2.0 cr)

*Take one of the following:*

- PA 5033 - Multivariate Techniques (2.0 cr)
- or PA 5041 - Qualitative Methods for Policy Analysts (4.0 cr)

**Focus Area - Take one of the following:**

- Only the following 5790 titles are applicable: “Environmental Mgmt of Food, Water, and Energy Systems” and “Urban Agriculture and Food Systems Policy.”
- PA 5721 - Energy Systems and Policy (3.0 cr)
- or PA 5751 - Urban Infrastructure Systems for Sustainable and Healthy Cities (3.0 cr)
- PA 5723 - Water Policy (3.0 cr)
- or PA 5750 - Topics in Science, Technology, and Environmental Policy (1.0 - 3.0 cr)
- PA 5724 - Climate Change Policy (3.0 cr)
- or PA 5751 - Emerging Sciences and Technologies: Law, Ethics and Policy (3.0 cr)
- or PA 5770 - Topics in Science, Technology, and Environmental Policy (1.0 - 3.0 cr)

**Electives**

- Electives to bring total credits to required number, in consultation with the advisor.

**Plan Options**

**Plan A Requirements**

- Take 10 master's thesis credits.
PA 8777 - Thesis Credits: Master's (1.0 - 18.0 cr)
-OR-

Plan C Requirements - Take one of the following:
- PA 8081 - Capstone Workshop (3.0 cr)
- or PA 8082 - Professional Paper-Writing Seminar (3.0 cr)
- or PA 8921 - Master's: Professional Paper (Individual Option) (1.0 - 3.0 cr)

Joint- or Dual-degree Coursework: MS-STEP/JD (Joint Degree Program in Law, Health, and the Life Sciences) Student may take a total of 24 credits in common among the academic programs.
Twin Cities Campus
Science, Technology, and Environmental Policy Minor
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Student Services, Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax: 612-626-0002)

- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2018
- Length of program in credits (Masters): 9
- Length of program in credits (Doctorate): 12
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The graduate minor in Science, Technology, and Environmental Policy (STEP) provides students with the skills and knowledge to study public issues arising at the intersection of science, technology, environment and society that shape economic development, environmental sustainability, human health, and well-being. The STEP graduate minor is designed to facilitate a cohort experience through the required survey course, PA 5711, additional coursework offered by STEP and STEP-affiliated faculty, and opportunities outside of the classroom through the Center for Science, Technology, and Environmental Policy (CSTEP). Students pursuing the STEP minor are strongly encouraged to participate in the activities of CSTEP, particularly the regular STEP Feedback and Research (STEP-FAR) seminar.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
The preferred undergraduate GPA for admittance to the program is 3.00.

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

Up to 3 credits may be taken on an S/N grade basis. All other courses must be completed with grades of B or better. Specific coursework is chosen in consultation with the student's minor adviser or director of graduate studies.

Required Course
PA 5711 - Science, Technology & Environmental Policy (3.0 cr)

Environmental Systems Thinking
Take 3 or more credit(s) from the following:
- PA 5712 - Science to Action: All Paths (1.5 cr)
- PA 5715 - Survey of Current Issues in Science, Technology, and Environmental Policy (1.5 cr)
- PA 5722 - Economics of Natural Resource and Environmental Policy (3.0 cr)
- PA 5741 - Risk, Resilience and Decision Making (1.5 cr)
- PA 5742 - Interdisciplinary Environmental Study: Practice and Design (1.5 cr)
- PA 5743 - AcaRA Impact Venture Launchpad - Moving Your Idea to Impact (1.5 cr)
- PA 5752 - Material-Energy Flows & Sustainable Development (3.0 cr)
- APEC 5721 - Economics of Science and Technology Policy (3.0 cr)

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Information current as of August 31, 2018
Focus Area
Take 3 or more credit(s) from the following:
• PA 5721 - Energy Systems and Policy (3.0 cr)
• PA 5723 - Water Policy (3.0 cr)
• PA 5724 - Climate Change Policy (3.0 cr)
• PA 5731 - Emerging Sciences and Technologies: Law, Ethics and Policy (3.0 cr)
• PA 5751 - Urban Infrastructure Systems for Sustainable and Healthy Cities (3.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.
Students may not complete the program with more than one sub-plan.

Masters
Doctoral
Twin Cities Campus
Urban and Regional Planning M.U.R.P.
HHH Administration
Hubert H. Humphrey School of Public Affairs

Link to a list of faculty for this program.

Contact Information:
Student Services, Hubert H. Humphrey School of Public Affairs, University of Minnesota, 301 19th Avenue South, Minneapolis, MN 55455 (612-624-3800; fax 612-626-0002)
Email: hhhadmit@umn.edu
Website: http://www.hhh.umn.edu

- Program Type: Master's
- Requirements for this program are current for Fall 2018
- Length of program in credits: 48
- This program does not require summer semesters for timely completion.
- Degree: Master of Urban and Regional Planning

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

The master of urban and regional planning (MURP) degree is an interdisciplinary program that prepares students to analyze, forecast, design, and implement plans for regions, communities, and neighborhoods. Students develop a comprehensive understanding of the built environment (land use, transportation, housing, regional economies) and the ability to mediate among competing interests. They are prepared for jobs in public, nonprofit, and private sectors. Students can generally complete the MURP degree in two years of full-time study.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
A four-year bachelor's degree from an accredited US university or foreign equivalent at time of enrollment.

Other requirements to be completed before admission:
While no specific experience or academic pathway is required, students with a strong liberal education background and sound quantitative and analytical skills will be best prepared for academic success at the Humphrey School of Public Affairs.

Previous coursework in mathematics, statistics, and economics is recommended. Past applicants needing to strengthen this part of their skill set have found courses in introductory microeconomics, college algebra, and introductory statistics to be helpful preparation.

Special Application Requirements:
A complete application will include a University of Minnesota graduate application, personal statement, resume or C.V., transcripts, GRE scores, TOEFL scores (if applicable), at least three letters of recommendation, and an optional diversity statement.

Applicants must submit their test score(s) from the following:
- GRE

International applicants must submit score(s) from one of the following tests:
- TOEFL
  - Internet Based - Total Score: 100
  - Paper Based - Total Score: 600
- IELTS
  - Total Score: 7

Key to test abbreviations (GRE, TOEFL, IELTS).

For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.
Program Requirements

Plan A: Plan A requires 38 major credits, 0 credits outside the major, and 10 thesis credits. The final exam is oral.

Plan C: Plan C requires 48 major credits and up to null credits outside the major. There is no final exam.

This program may be completed with a minor.

Use of 4xxx courses towards program requirements is not permitted.

A minimum GPA of 2.80 is required for students to remain in good standing.

At least 1 semesters must be completed before filing a Degree Program Form.

A 400-hour professional internship is required. MURP students must demonstrate competence with GIS through coursework or work experience. (Students not competent in GIS must take a graduate-level GIS course as part of their 48 credits.)

Required Core Courses

PA 5004 - Introduction to Planning (3.0 cr)
PA 5013 - Law and Urban Land Use (1.5 cr)
PA 5205 - Statistics for Planning (4.0 cr)
PA 5042 - Urban and Regional Economics (2.0 cr)
PA 5043 - Economic and Demographic Data Analysis (2.0 cr)
PA 5204 - Urban Spatial and Social Dynamics (3.0 cr)
PA 5211 - Land Use Planning (3.0 cr)
PA 5253 - Designing Planning and Participation Processes (3.0 cr)
PA 8081 - Capstone Workshop (3.0 cr)

Plan Options

Plan A Requirements

Plan A students must complete at least 38 course credits, which will include the core courses, at least 6 credits from one of four concentration areas, and electives. Plan A students also must take at least 10 master's thesis credits.

Concentration Requirement

Take at least 6 credits from one of the following concentration areas: Environmental Planning; Housing and Community Development; Land Use and Urban Design; or Transportation Planning.

Electives

Take elective courses as needed to meet the 38-credit requirement for coursework.

Thesis Credits

Take 10 master's thesis credits.

PA 8777 - Thesis Credits: Master's (1.0 - 18.0 cr)

-OR-

Plan C Requirements

Plan C students must complete at least 48 course credits, which will include the core courses, at least 12 credits from one of four concentration areas, and electives.

Concentration Requirement

Take at least 12 credits from one of the following concentration areas: environmental planning; housing and community development; land use and urban design; or transportation planning.

Electives

Take elective courses as needed to meet the 48-credit requirement.

Joint- or Dual-degree Coursework:

MURP/JD: 29 credits in common allowed. MURP/MLA: 37 credits in common allowed. MURP/MPH: 26 credits in common allowed. MURP/MSCE: 18 credits in common allowed. MURP/MSW: 21 credits in common allowed for the full program; 15 for the advanced standing program; and 11 for MSW Direct Practice.
Twin Cities Campus
Urban and Regional Planning Minor
HHH Administration
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- Program Type: Graduate minor related to major
- Requirements for this program are current for Fall 2018
- Length of program in credits (Masters): 9
- Length of program in credits (Doctorate): 12
- This program does not require summer semesters for timely completion.

Along with the program-specific requirements listed below, please read the General Information section of the catalog website for requirements that apply to all major fields.

Planners bring together knowledge and expertise from many diverse disciplines to shape neighborhoods, cities, and regions. The urban and regional planning minor helps students to think across those fields of expertise and act upon links among environmental systems, infrastructure development, and housing and community development. The program teaches technical and analytical skills needed to think strategically about developing and implementing plans at the neighborhood, city, and regional level.

Program Delivery
This program is available:
- via classroom (the majority of instruction is face-to-face)

Prerequisites for Admission
For an online application or for more information about graduate education admissions, see the General Information section of the catalog website.

Program Requirements
Use of 4xxx courses towards program requirements is not permitted.

No more than 3 credits may be taken S/N. All other courses must be completed with grades of B or higher. Students must complete the minor with at least a 3.0 GPA.

PA 5004
PA 5004 - Introduction to Planning (3.0 cr)

Additional Coursework
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- PA 5211 - Land Use Planning (3.0 cr)
- PA 5231 - Transit Planning and Management (3.0 cr)
- PA 5242 - Environmental Planning, Policy, and Decision Making (3.0 cr)
- PA 5261 - Housing Policy (3.0 cr)
- PA 8202 - Networks and Places: Transportation, Land Use, and Design (4.0 cr)
- PA 8203 - Neighborhood Revitalization Strategies and Theories (4.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.
Students may not complete the program with more than one sub-plan.

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Information current as of August 31, 2018
Masters

Required Coursework
Take additional courses as needed, in consultation with the Urban and Regional Planning director of graduate studies, to meet the 9-credit requirement.
PA 5xxx
PA 8xxx

Doctoral

Required Coursework
Take additional courses as needed, in consultation with the Urban and Regional Planning director of graduate studies, to meet the 12-credit requirement.
PA 5xxx
PA 8xxx