



PIER Fellowship: Overview of Distribution Requirements

Below is a list of courses that will fulfill PIER curriculum requirements: quantitative methods, psychometrics, program evaluation, and education policy. Note that this is not necessarily a complete list. New courses are developed regularly across the university, and fellows may petition to have appropriate courses count against the requirements.

If a fellow plans to count any module courses towards his or her PIER requirements, they will need to take 2 modules to fulfill 1 course requirement.

**** Indicates the course is a module**

Quantitative Methods (3 courses from list below)	
<p>HGSE</p> <ul style="list-style-type: none"> • S-022: Statistical Computing and Simulation-Based Analysis • S-040: Introduction to Applied Data Analysis • S-043: Multilevel and Longitudinal Models • S-052: Applied Data Analysis • S-090A1: Applied Statistical Analysis with Latent Variables • S-290: Quantitative Methods for Improving Casual Inference in Educational Research 	<p>HKS</p> <ul style="list-style-type: none"> • API-209: Advanced Quantitative Methods I • API-210: Advanced Quantitative Methods II • API-302: Analytical Frameworks for Policy
<p>FAS – Economics</p> <ul style="list-style-type: none"> • Econ-2110: Econometrics I • Econ-2120: Introduction to Applied Econometrics • Econ-2140: Econometric Methods • Econ-2142: Time Series Analysis • Econ 2162A or B: Research in Econometrics • ECON 2115: Econometric Methods II 	<p>FAS – Government</p> <ul style="list-style-type: none"> • Gov-2000: Introduction to Quantitative Methods I • Gov-2001: Advanced Quantitative Research Methodology • Gov-2002: Casual Inference (updated title- formerly Topics in Quantitative Methods) <p>Continuation of FAS-Government *Note: Gov-2000E may not be counted towards meeting PIER requirements.</p>

Quantitative Methods (3 courses from list below)	
<p>FAS – Stats/ Computer Science</p> <ul style="list-style-type: none"> • Stat-186: Statistical Methods for Evaluating Causal Effects • Stat-210: Probability I • Stat-211: Statistical Inference I • Stat-212: Probability II • Stat-213: Statistical Inference II • CompSci-109A/ Stat-121A: Data Science 1: Introduction to Data Science • CompSci-109B/ Stat-121B: Data Science 2 (DS2) <p>FAS – Psychology</p> <ul style="list-style-type: none"> • Psy-1950: Intermediate Statistical Analysis in Psychology • Psy.1952 Multivariate Analysis in Psychology • Psy.2030 Bayesian Data Analysis 	<p>FAS – Sociology</p> <ul style="list-style-type: none"> • Sociol-2202: Intermediate Quantitative Research Methods • Sociol-2203: Advanced Quantitative Research Methods • Sociol-2211: Analysis of Longitudinal Data: Seminar (Formerly known as 203B) • Sociol-3303: Advanced Topics in Quantitative Research • Sociol-3318: Quantitative Methods in Sociology
Psychometrics: 1 Course	
S-061 Statistical and Psychometric Methods for Educational Measurement	
Program Evaluation: Approved 1 Course Or 3 Course Methodological Sequence	
<ul style="list-style-type: none"> • HKS API-211/HGSE A-164: Program Evaluation (recommended) • HKS API-208: Program Evaluation: Estimating Program Effectiveness with Empirical Analysis^ • HGSE S-290 Quantitative Methods for Improving Causal Inference in Educational Research^ <p>^Courses equivalent to A-164 that meet the PIER program evaluation requirement. Fellows will not be able to count these courses again to fulfill the quantitative methods requirements.</p> <p>Methodological Sequences which fulfill the program evaluation requirement of A-164:</p> <ul style="list-style-type: none"> ○ Economics <ol style="list-style-type: none"> 1. Econ-2110: Econometrics I 2. Econ-2120: Introduction to Applied Econometrics 3. Econ-2140: Econometric Methods ○ Government <ol style="list-style-type: none"> 1. Gov-2000: Introduction to Quantitative Methods I 2. Gov-2001: Advanced Quantitative Research Methodology 3. Gov-2002: Causal Inference 	

Continued Methodological Sequences which fulfill the program evaluation requirement of A-164:

- Statistics
 1. [Stat-186: Statistical Methods for Evaluating Causal Effects](#)
 2. [Stat-210: Probability](#)
 3. [Stat-211: Statistical Inference](#)
- Sociology
 1. [Sociol-2202: Intermediate Quantitative Research Methods](#)
 2. [Sociol-2203: Advanced Quantitative Research Methods](#)
 3. [Sociol-2205: Sociological Research Design](#)

Education Policy/ Improving Education Systems (2 Courses from list below)

1 of these two courses must focus on the following subtopics: teacher and teaching effectiveness, access to higher education, and early childhood education

Teacher and Teaching Effectiveness:

[HGSE A-108/HKS SUP-470: Strategies for Narrowing Racial Achievement Gaps](#)

[HGSE A-123: Teacher and Teacher Quality](#)

[HGSE A-310G Data Wise: Using Data to Improve Teaching and Learning**](#)

[HGSE A-312: Systemic Reform in Urban School Districts and Schools](#)

Access to Higher Education:

[HGSE A-412: The History of American Higher Education](#)

[HGSE A-710D: Principles and Policy Issues of College Admissions **](#)

[HGSE A-710J: Using Data to Support Decisionmaking and Improvement in Higher Education **](#)

[HGSE A-710P: The Economics of Higher Education Access, Outcomes, and Competition **](#)

[HGSE A-719: Diversity and Equity in American Higher Education](#)

[HGSE S-123/ HKS SUP-442: Tackling the Toughest Challenges for Modern American Higher Education](#)

[Econ 2810B: Labor Economics and Labor Market Institutions](#)

[EDU A710H: Community Colleges and the Advancement of Educational and Economic Opportunity](#)

Early Childhood Education:

[HGSE AH-125: Driving Science-Based Innovation in Early Childhood and Practice Policy](#)

[H307/SUP211: Institutional and Community-Based Strategies to Support Children and Strengthen Families](#)

General Education Policy:

[Econ-1816: Race in America](#)

[Econ-1820: Education Reform in America](#)

[Econ-2330: History and Human Capital](#)

[Econ-2811: Social Economics \(Inequality, Education, and Social Interactions\)](#)

[Econ-980B Education in the Economy](#)

[HGSE A-024/HKS SUP-449: Politics Education Policy in U.S.](#)

[HGSE A-029: Introduction to Education Finance and Budgeting](#)

[HGSE A-035: Economics of Human Resources in the Education Sector](#)
[HGSE A-122: The Why, What, and How of School, Family, and Community Partnerships](#)
[HGSE A-129: The Federal Government in Schools](#)
[HGSE A-203: Educational Justice](#)
[HGSE A-205: Microeconomics: A Policy Tool for Educators](#)
[HGSE A-322: School Systems](#)
[HGSE A-325: Improving Systems of Learning: Instructional Leadership at System Level](#)
[HGSE A-362: Institutional Change in School Organizations, Systems, and Sectors](#)
[HGSE A125: State Education Policy: A Practicum](#)
[HGSE EDU H206 Developmental Theories of Change](#)

Continuation of Education Policy Courses

[HGSE T-565: Entrepreneurship in Education Marketplace](#)
[HGSE S-803: Core Ph.D. Seminar in Education Policy and Program Evaluation](#)
[HGSE A-801: Education Policy Analysis and Research in Comparative Perspective](#)
[HKS SUP-427: Analyzing Education Policy](#)
[Gov-1368/HKS SUP-447: The Politics of American Education](#)
[Gov-2490/HKS SUP-448: The Political Economy of the School](#)
[Psy-1055: In Search of the Perfect School](#)
[Psy-1056: Explaining Academic Achievement](#)
[Psy-1515: Psychology of Groups at Work](#)

Course Requests Not Approved:

Econ-2810A: Labor Market Analysis

- Not enough education content to meet Education Policy/ Improving Education Systems requirement

HT-107: Topics in Educational Psychology

- Not enough policy content to meet Education Policy/ Improving Education Systems requirement

HGSE A-133: Cultural Explanations for Ethnic and Racial Inequality in Education

- Not enough policy content to meet Education Policy/ Improving Education Systems requirement