



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 two modules to fulfill one-course requirement, with the exception of the S-061 psychometric sequence.

**** 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 	<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 NEW • CompSci-109B/ Stat-121B: Data Science 2 (DS2) NEW <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"> • Soc-202: Intermediate Quantitative Research Methods • Soc-203: Advanced Quantitative Research Methods • Soc-211: Analysis of Longitudinal Data: Seminar (Formerly known as 203B) • Soc-303: Advanced Topics in Quantitative Research • Soc-318: Quantitative Methods in Sociology
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Psychometrics: 1 Module (S-061a)

[HGSE S-061a & S061b: Methods of Educational Measurement I & II](#)

Fellows are required to take the first half of the module sequence (S-061a); however, enrollment in both modules is strongly encouraged.

Program Evaluation: Approved 1 Course Or 3-Course Methodological Sequence

- [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^](#)

^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.

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

- Economics
 1. [Econ-2110: Econometrics I](#)
 2. [Econ-2120: Introduction to Applied Econometrics](#)
 3. [Econ-2140: Econometric Methods](#)
- Government
 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. [Soc-202: Intermediate Quantitative Research Methods](#)
 2. [Soc-203: Advanced Quantitative Research Methods](#)
 3. [Soc-205: Sociological Research Design](#)

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

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

Teacher and Teaching Effectiveness:

[A312: Systemic Reform in Urban School Districts and Schools](#) **NEW**

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

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

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

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](#)

Early Childhood Education:

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

General Education Policy:

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

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

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

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

[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](#) **NEW**

[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](#)

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