



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

**Quantitative Methods (3 courses from list below)**

FAS – Stats/ Computer Science

- 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)

FAS – Psychology

- Psy-1950: Intermediate Statistical Analysis in Psychology
- Psy-1952 Multivariate Analysis in Psychology
- Psy-2030 Bayesian Data Analysis

FAS – Sociology

- 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**

- HKS API-211/HGSE A-164: Program Evaluation (recommended)
- HKS API-208: Program Evaluation: Estimating Program Effectiveness with Empirical Analysis<sup>^</sup>
- HGSE S-290 Quantitative Methods for Improving Causal Inference in Educational Research<sup>^</sup>

<sup>^</sup>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. 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-035: The Teacher Workforce: Management and Policy  
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 A318: New Pathways for College and Career Readiness: Increasing Opportunity and Equity Through 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  
HGSE A710H: Community Colleges and the Advancement of Educational and Economic Opportunity  
HGSE A712: State and Federal Policymaking in Postsecondary Education  
Econ 2810B: Labor Economics and Labor Market Institutions

**Early Childhood Education:**

HGSE AH-125: Driving Science-Based Innovation in Early Childhood and Practice Policy  
H-307/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 A125: State Education Policy: A Practicum  
 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 A-801: Education Policy Analysis and Research in Comparative Perspective  
 HGSE H-206: Developmental Theories of Change  
 HGSE H-616: Developmental Insights: Linking the Science of Human Development to Practice and Policy  
 HGSE T-565: Entrepreneurship in Education Marketplace  
 HGSE S-803: Core Ph.D. Seminar in Education Policy and Program Evaluation  
 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