

THE GRADUATE COUNCIL  
Wednesday, March 29, 2023 at 12:30p.m.  
Elebash Recital Hall

### AGENDA

- |       |  |                   |        |
|-------|--|-------------------|--------|
| I.    | Approval of the Agenda: March 29, 2023   | President Garrell |        |
| II.   | Approval of the Minutes: December 14, 2022   | President Garrell | p.9    |
| III.  | Opening Comments   | President Garrell |        |
| IV.   | Granting of Degrees and Certificates to February 2023 Candidates (Ph.D., M.Phil., M.A., M.S., DMA) | Provost Everett   | Appx.A |
| V.    | Committee on Curriculum and Degree Requirements  | Prof. Cole        | p.12   |
|       | <b>A. Major Items</b>  |                   |        |
|       | 1. <b>Business</b> - New course: "Game Theory and Behavioral Operations"                           |                   |        |
|       | 2. <b>Demography</b> - New course: Independent Study   |                   |        |
| VI.   | Committee on Structure - Update  | Prof. Giannikos   |        |
| VII.  | Committee on Committees - Update   | Jonathan Hanon    |        |
| VIII. | University Faculty Senate - Report   | Prof. Burke       |        |
| IX.   | New Business   |                   |        |

The Graduate School and University Center  
The Graduate Council  
2022-2023

(Nonvoting Members)

President	Dr. Robin L. Garrell
Provost and Senior Vice President	Dr. Steve Everett
Interim Associate Provost	Dr. Monica Varsanyi
Dean for the Sciences	Dr. Josh Brumberg
Vice President for Student Affairs	Matthew Schoengood
Senior Vice President for Finance and Administration	Brian Peterson
Interim Assistant Vice President for Information Technology and Chief Information Officer	Jeff Barnes
Vice President for Communications and Marketing	Wendy DeMarco Fuentes
Executive Chief Librarian	Dr. Maura Smale

**Executive Committee of Graduate Council**

Professor Peter Eckersall (Interim Chair)  
Professor Christos Giannikos (Interim Chair, Structure Committee)  
Professor Duncan Faherty (Chair, Curriculum and Degree Requirements Committee)  
Professor Martin Burke (UFS Representative) (Ex officio)  
Professor Barbara Weinstein (Doctoral Faculty Policy Committee Representative) (Voting member)  
Alex Jiang (USS Delegate)  
Christopher Campbell (DGSC Co-Chair) (Voting member)  
Provost Steve Everett (Ex officio)

**Executive Officers and Directors (Voting Members)**

Anthropology	Professor Jeff Maskovsky
Art History	Professor Jennifer Ball
Astrophysics	Professor Jillian Bellovary (Acting)
Audiology	Professor Dorothy Neave-DiToro (Acting)
Biochemistry	Professor Sebastian Poget
Biography and Memoir	Professor Sarah Covington
Biology	Professor Cathy Savage-Dunn
Business	Professor Karl Lang
Chemistry	Professor Yolanda Small
Classics	Professor Rachel Kousser
Cognitive Neuroscience	Professor Tony Ro
Comparative Literature	Professor Giancarlo Lombardi
Computer Science	Professor Ping Ji
Criminal Justice	Professor Brian Lawton
Data Analysis and Visualization	Professor Matthew Gold
Data Science	Professor Ping Ji
Digital Humanities	Professor Matthew Gold
Earth and Environmental Sciences	Professor Kieren Howard (Acting)

Economics	Professor Christos Giannikos
Educational Opp. Div. Programs	Professor Martin Ruck
Educational Psychology	Professor Joan Lucariello
English	Professor Tanya Agathocleous (Co-Acting) and Professor Talia Schaffer (Co-Acting)
French	Professor Maxime Blanchard
History	Professor Jonathan Sassi (Acting)
International Migration Studies	Professor Richard Ocado
Latin American, Iberian and Latino Cultures	Professor Jane Marcus Delgado (Acting)
Liberal Studies	Professor David Humphries (Acting)
Linguistics	Professor Cecelia Cutler
Mathematics	Professor Christian Wolf
Middle Eastern Studies	Professor Christa Salamandra
Music	Professor Norman Carey
Nanoscience	Professor Michele Vittadello
Nursing	Professor Juan Battle
Philosophy	Professor Iakovos Vasiliou (Acting)
Physics	Professor Alexios Polychronakos
Political Science	Professor Jack Jacobs
Psychology	Professor Richard Bodnar
Quantitative Methods in the Social Sciences	Professor Jeremy Porter
Social Welfare	Professor Barbra Teater
Sociology	Professor Lynn Chancer
Speech-Language-Hearing Sciences	Professor Valerie Shafer
Theatre and Performance	Professor James Wilson
Urban Education	Professor Wendy Luttrell
Women's and Gender Studies	Professor Dana Ain Davis

**Certificate Programs (Voting Members)**

Africana Studies	Professor Nathalie Etoke (Acting)
American Studies	Professor David Waldstreicher (Acting)
Critical Theory	Professor Bettina Lerner
Demography	Professor Neil Bennett
Film Studies	Professor Edward Miller
Global Early Modern Studies	Professor Amanda Wunder
Interactive Technology and Pedagogy	Professor Michael Mandiberg
Medieval Studies	Professor Sara McDougall
Women's Studies	Professor Dana Ain Davis

**Chair of the Doctoral Faculty Policy Committee (Voting Member)**

Professor Martin Burke

**Doctoral and Graduate Students' Council (Voting Members)**

Silvia Rivera Alfaro  
Christopher Campbell  
Jonathan Hanon  
Parisa Montazaran Osmanovic (UFS Liaison)  
Alex Jiang (USS Delegate) (Nonvoting)

**Chairs of the Executive Committee and Standing Committees of Graduate Council**  
(Voting Members)

Executive Committee of Graduate Council	Professor Peter Eckersall (Interim Chair)
Committee on Committees	Jonathan Hanon
Committee on Curriculum and Degree Requirements	Professor Duncan Faherty
Committee on Research	Professor Tony Ro
Information Technology Committee	Professor Matthew Gold
Library Committee	Professor Christos Giannikos
Committee on Structure	Professor Christos Giannikos (Interim Chair)
Committee on Student Services	Ariel Leutheusser
Budget Committee	Professor Louise Lennihan
Student Academic Appeals Committee	TBA

The Graduate Council  
2022-2023

	<b>Faculty</b>	<b>Students</b>
Anthropology	Prof. Sarah Muir Prof. Miriam Ticktin	Lea Coffineau Nikhil Sood
Art History	Prof. Rachel Kousser	Emily Mangione
Astrophysics	Prof. Ari Maller	Andrew Ayala
Audiology	Prof. Don Vogel	Madeleine Campbell
Biochemistry	Prof. Lesley Davenport	Alfredo Vidal Ceballos
Biography & Memoir	Prof. Sara McDougall	Vanessa Botelho
Biology	Prof. Mande Holford Prof. Itzhak Mano	Katherine Anderson Sara Fresard
Business	Prof. Joseph Onochie	Andrea Pelaez Martinez
Chemistry	Prof. Robert Nolan TBA	Britney Singh Anna Geissmann
Classics	Prof. John Van Sickle	Jamie Banks
Cognitive Neuroscience	Prof. Peter Serrano	Rebecca McCune
Comparative Literature	Prof. Paola Ureni	Peter Kurtz
Computer Science & Data Science	Prof. Mikael Vejdemo-Johansson Prof. Huy Vo	Bilal Abdulrahman Jianing Qi
Criminal Justice	Prof. Gohar Petrossian	Justice Evans
Data Analysis & Visualization	Prof. Kevin Ferguson	Shoko Tachikawa
Digital Humanities	Prof. Andie Silva	Zico Dey
Earth & Environmental Sciences	Prof. Cindi Katz	Aurash Khawarзад
Economics	Prof. Wim Vijverberg	Christos Angelopoulos
Educational Psychology	Prof. David Rindskopf	Carolina Lopera-Oquendo
English	Prof. Melissa Castillo Planas TBA	Sharifa Hampton Sam O'Hana Grainger
French	Prof. Erec Koch	Andreea Preda
History	Prof. Anne Kornhauser	Amanda Westbrook Brennan

International Migration Studies	Prof. Van Tran	Ashwin Kumar
Latin American, Iberian & Latino Cultures	Prof. Vanessa Perez-Rosario	Laura Liendo
Liberal Studies	Prof. George Fragopoulos TBA	Jeri Brand TBA
Library	Prof. Elvis Bakaitis	
Linguistics	Prof. Samer Al Khatib	Tysean Bucknor
Mathematics	Prof. Krzysztof Klosin	Coco (Xiaoyu) Huang
Middle Eastern Studies	Prof. Beth Baron	Abraham Silberstein
Music	Prof. Jeff Nichols Prof. L. Poundie Burstein	Alexandra Smither Robert Wrigley
Nanoscience	TBA	Justin Engstler
Nursing	Prof. Juan Battle	
Philosophy	Prof. Jonathan Gilmore	Ben Claessens
Physics	Nicolas Giovambattista Daniel Kabat	Angel Perez-Martinez TBA
Political Science	Prof. Benedetto Fontana Prof. Till Weber	Chelsea Elizabeth Joliet Kevin McGinnis
Psychology	Prof. Dana Davis Prof. Michelle Fine Prof. Kristen Gillespie-Lynch Prof. Brett Stoudt	Nicolette Dakin Hasibe Melda Kahraman-Colosky Alysha Rafeeq Jonas Sutphin
Quantitative Methods In the Social Sciences	TBA	TBA
Social Welfare	Prof. Rufina Lee	Emily Lopez
Sociology	Prof. Jeremy Porter Prof. Van Tran	Hanna Goldberg TBA
Speech & Hearing Sciences	Prof. Doug Whalen	Rion Iwasaki
Theatre and Performance	Prof. David Savran	Philip Wiles
Urban Education	Prof. Sherry Deckman	Jennifer Queenan
Women's & Gender Studies	Prof. Michelle Fine	Jennifer Bae

## Spring 2023

### Centers and Institutes (Nonvoting Members)

Advanced Research Collaborative	Prof. Philip Kasinitz
Advanced Science Research Center (ASRC)	Dr. Joshua Brumberg (Interim)
American Social History Project/ Center for Media and Learning	Prof. Anne Valk
Barry S. Brook Center for Music Research and Documentation	Prof. Tina Frühauf
Bildner Center for Western Hemisphere Studies	Prof. Mauricio Font
Center for Advanced Study in Education (CASE)	Dr. Deborah Hecht
Center for Human Environments	Prof. Roger Hart
Center for Jewish Studies	Prof. Francesca Bregoli
Institute for Sephardic Studies	Prof. Jane Gerber
The Rosenthal Institute for Holocaust Studies	TBA
Center for Latin American, Caribbean and Latino Studies	Prof. Laird Bergad
Center for LGBTQ Studies (CLAGS)	Prof. Justin Brown
Center for Place, Culture, and Politics	Prof. Ruth Wilson Gilmore
Center for the Humanities	Prof. Keith Wilson
Center for the Study of Women and Society	Prof. Dana-Ain Davis
Center for Urban Research	Prof. John Mollenkopf
CUNY Data Service	Dr. Joseph Pereira
CUNY Mapping Service	Steven Romalewski
New York City Market Information Service (NYCLMIS)	Jaclyn Kelly
Center on Philanthropy and Civil Society	Prof. Kathleen McCarthy
CUNY Academy for the Humanities and Sciences	Prof. Sarah Danielsson
CUNY Institute for Software Design and Development (CISDD)	Prof. Ted Brown
Endangered Language Initiative	Prof. Juliette Blevins
European Union Studies Center	Prof. Patrizia Nobbe
Futures Initiative	Prof. Cathy Davidson

GC Digital Initiatives	Prof. Matthew Gold
Gotham Center for New York City History	Dr. Peter Aigner
Henri Peyre French Institute	Prof. Francesca Sautman
Human Ecodynamics Research Center (HERC)	Prof. Thomas McGovern
Initiative for the Theoretical Sciences	Prof. Vadim Oganessian
Institute for Language Education in Transcultural Context	Dr. Alberta Gatti
Institute for Research on the African Diaspora in the Americas and the Caribbean (IRADAC)	Prof. Herman Bennett
Intellectual Publics	Prof. Ken Wissoker
James Gallery	Dr. Katherine Carl
Latin/Greek Institute	Prof. Lucas Rubin
Leon Levy Center for Biography	Prof. Kai Bird
James M. and Cathleen D. Stone Center on Socio-Economic Inequality	Prof. Janet Gornick
Martin E. Segal Theatre Center	Prof. Frank Hentschker
Middle East and Middle Eastern American Center (MEMEAC)	Prof. Beth Baron
Ralph Bunche Institute for International Studies	Prof. John Torpey
Research Institute for the Study of Language in Urban Society (RISLUS)	Prof. Gita Martohardjono
Revolutionizing American Studies Initiative	Prof. Duncan Faherty
The Saul Kripke Center	Prof. Romina Padro
Teaching and Learning Center	Prof. Luke Waltzer
The Writers' Institute	Prof. André Aciman



THE GRADUATE CENTER  
THE CITY UNIVERSITY OF NEW YORK  
THE GRADUATE COUNCIL  
**Minutes of the Meeting**  
December 14, 2022, at 3pm, Proshansky Auditorium

Present: President Robin Garrell, Provost Steve Everett, Jeff Barnes, Wendy DeMarco Fuentes, Brian Peterson, Maura Smale, Teresa Curmi, Bonnie Eissner, Jennifer Furlong, Laurie Hurson, Alex Irklievski, Helen Koh, Christopher Lowery, Gerry Martini, Stacy Modica, Jason Nielsen, Tricia Plummer, Ken Tirino, Julie Vanegas, Daniela Verdejo Salazar; *Professors:* Samer Al Khatib, Jennifer Ball, Beth Baron, Eliot Bates, Herman Bennett, Neil Bennett, Richard Bodnar, Aranzazu Borrachero, Patricia Brooks, Martin Burke, L. Poundie Burstein, Norman Carey, Melissa Castillo Planas, Lynn Chancer, Jill Cirasella, Lesley Davenport, Dana-Ain Davis, Sherry Deckman, Nathalie Etoke, Duncan Faherty, Paolo Fasoli, Kevin Ferguson, Michelle Fine, Benedetto Fontana, George Fragopoulos, Christos Giannikos, Kristen Gillespie-Lynch, Matthew Gold, Kieren Howard, David Humphries, Jack Jacobs, Ping Ji, Cindi Katz, Krzysztof Klosin, Erec Koch, Anne Kornhauser, Rachel Kousser, Karl Lang, Brian Lawton, Louise Lennihan, Bettina Lerner, Joan Lucariello, Wendy Luttrell, Mary McGlynn, Elizabeth Macaulay, Ari Maller, Michael Mandiberg, Itzhak Mano, Jane Marcus-Delgado, Jeff Maskovsky, Edward Miller, Hillary Miller, Dorothy Neave-DiTorro, Robert Nolan, Richard Ocejo, David Olan, Nickolas Pappas, Vanessa Perez-Rosario, Gohar Petrossian, Sebastien Poget, Alexios Polychronakos, Jeremy Porter, Tony Ro, Jonathan Sassi, Talia Schaffer, Alycia Sellie, Peter Serrano, Valerie Shafer, Yolanda Small, Karl Steel, Brett Stoudt, Barbra Teater, John Torpey, Van Tran, Paola Ureni, Anne Valk, Mikael Vejdemo-Johansson, Wim Vijverberg, Michele Vittadello, Huy Vo, David Waldstreicher, Luke Waltzer, Till Weber, Douglas Whalen, James Wilson, Christian Wolf, Julia Wrigley; *Students:* Bilal Abdulrahman, Katherine Anderson, Christos Angelopoulos, Jennifer Bae, Christopher Campbell, Madeleine Campbell, Ben Claessens, Lea Coffineau, Zico Abhi Dey, Justin Engstler, Justice Evans, Anna Geissmann, Krystian Grondecki, Jonathan Hanon, Coco (Xiaoyu) Huang, Rion Iwasaki, Chelsea Elizabeth Joliet, Hasibe Melda Kahraman-Colosky, Peter Kurtz, Laura Liendo, Carolina Lopera-Oquendo, Rebecca McCune, Kevin McGinnis, Sayantika Mondal, Samuel O'Hana Grainger, Andrea Pelaez Martinez, Andreea Preda, Jianing Qi, Jennifer Queenan, Alysha Rafeeq, Silvia Rivera Alfaro, Abraham Silberstein, Britney Singh, Michael Smith, Nikhil Sood, Amanda Westbrook Brennan, Philip Wiles, Ian Williams; Nicolette Bull

I. Approval of the Agenda of the December 14, 2022 meeting - [Motion to approve by Prof. Duncan Faherty] Approved

II. Approval of the Minutes of the October 19, 2022 meeting - [Motion to approve by Prof. Martin Burke] Approved

III. Opening remarks were given by President Garrell

- a. Vision- Steps are being taken to improve relationships and rebuild trust and confidence at the Graduate Center. The President's vision includes strengthening the GC as a hub for doctoral research, and:
  - i. Working alongside the Central Office towards increasing State investment in doctoral students, enhancing the GC's research portfolio, and continuing to grow philanthropy.
  - ii. Strengthening the consortial model for graduate education across CUNY. CUNY's Chancellor and leadership have reaffirmed their support of the GC in this effort.
  - iii. Growing the GC's student funding to increase funding packages and increase student services.
  - iv. Rebuilding community and reenergizing the GC.
  - v. Continuing to advance DEI through everything that the GC does and addressing inequities. The GC's affirmative action plan for the year includes measurable goals and the strategic plan will as well.

- vi. Elevating the GC's visibility and impact.
- b. Strategic plan- Work is underway on the GC's next strategic plan with additional information scheduled to be shared at the start of the Spring 2023 semester.
- c. Food insecurity and food services- The GC is investigating options to bring food service back to campus. In the meantime, several programs have raised ideas that are being further explored and certain programs have offered to host a coffee time get-together in the Dining Commons to help rebuild a sense of the community. The Office of Student Affairs has added information on the GC website about CUNY food pantries, and a working group is being established to discuss food service availability on campus and identify potential solutions.
- d. Sharing information- Additional GC Community Meetings will be scheduled for Spring 2023, the President and Provost are meeting with faculty, and there is a new newsletter being distributed through the Provost's Office.
- e. Reproductive rights- There is interest in supporting research on reproductive rights. Two mechanisms include requests for research funding through the PSC and early research funding options for students at the GC.
- f. Facilitating processes for international students- Discussions are in progress about how to improve the onboarding processes for international students. Academic Affairs has been asked to create an onboarding experience work group to assist with streamlining the processes.
- g. Business Office- The Business Office will hold in-person hours so that individuals can drop in for assistance. Mid-year fund balances will be sent to each fund manager.
- h. Sponsored Research- A review of the workflows and resources in Sponsored Research is underway and work is being done to address any inefficiencies.
- i. Undocumented students- Discussions are taking place around increasing equity for undocumented students. A working group has been established and is identifying opportunities for funding and other support for undocumented students. Draft roadmaps are being created and will be shared.
- j. The President and Provost were invited by the Central Office to participate in crafting a request narrative that will be submitted to the Governor's Office. Included are requests for an increase in funding for current doctoral students, support to increase the overall number of students, support to increase the number of research faculty, and support to increase research on urban climate.
- k. Updates from Central Office-
  - i. Employees' remote work agreements expire at the end of the calendar year. CUNY's 70/30 in-person/remote work schedule policies continue for Spring 2023 and HR will share additional guidance.
  - ii. The building access policy will be updated in January 2023 and the Central Office will provide additional specifics about the changes.
  - iii. A significant portion of the GC's growing budget deficit resulted from changes in 2019 in how funds were allocated to the GC and cost increases that the GC then had to cover through its base budget. The President and Provost have been working with the University Budget Office to document and remedy the problem and the Central Office is putting a solution in place for FY23 to fund the gap that was created.

#### IV. Committee on Curriculum and Degree Requirements (Prof. Faherty)

##### A. Major items:

1. **English** – change in language requirement and bulletin changes – [Motion to approve by Prof. Michael Mandiberg] Approved.
2. **Master's in Liberal Studies (MALS)**
  - i. New concentration in Public Scholarship – [Motion to approve by Prof. Martin Burke] Approved with a friendly amendment requested for a sentence in the concentration's justification.
  - ii. New course: "Introduction to Public Scholarship: Theories, Methods, and Approaches" – [Motion to approve by Prof. Michael Mandiberg] Approved.

- iii. New course: "Special Topics in Public Scholarship" - [Motion to approve by Prof. Michael Mandiberg] Approved.
  - 3. **Sociology** - changes to admission requirement and bulletin changes - [Motion to approve by Prof. Michael Mandiberg] Approved.
  - 4. **Social Welfare**
    - i. Changes to degree requirements and bulletin changes - [Motion to approve by Prof. Michael Mandiberg] Approved.
    - ii. Change to course title - [Motion to approve by Prof. Michael Mandiberg] Approved.
- V. College Association - Election of Faculty Representatives (Prof. Faherty)
- a. There are three faculty representative vacancies on the College Association. Two faculty members are nominated: Professors Jeremy Porter and Polly Thistlethwaite. Nominations from the floor: Professors Christos Giannikos and Mikael Vejdemo-Johansson. Votes were recorded on the ballots.
- VI. University Faculty Senate (UFS) report (Prof. Burke)
- a. CUNY budget- The Board of Trustees approved the Chancellery's formal budget request (one step in the process that leads to the New York State budget). Included is a request for \$10 million for graduate students and stipends, \$5 million for support for the doctoral programs, and a request to hire 50 research-focused diverse faculty for graduate education. The UFS's budget advisory committee will meet with CUNY's Interim VC for Budget and Finance and CFO to request additional details. The UFS is working to support the Chancellery's budget request through lobbying efforts and will be doing so with SUNY UFS in the coming months as well.
  - b. CUNY online- A new Associate has been hired to oversee the CUNY online program, which will be managed through the Central Office, Office of Academic Affairs. The EVC and University Provost expects that within 5 years the University will double its fully online degree programs. The initiative is primarily targeting undergraduate degree programs and the programs would be fully asynchronous and fully online. There is a need for faculty representation for the CUNY online task force.
- VII. New business
- a. Members of the Council put forward a motion of "no confidence" in the President, Provost, and Senior Vice President for Finance and Administration. The three aforementioned GC leaders recused themselves from the remainder of the meeting so that further discussion could take place on the topic. The Chair of the Graduate Council Executive Committee stepped in to oversee the remainder of the meeting. A discussion ensued on the topic of the "no confidence" motion. Voting members of the Council present at the close of the discussion were asked to vote on the resolution of no confidence submitted for the Council's review. Votes were recorded on the ballots.

Meeting adjourned at 4:52pm

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## ACADEMIC MATTERS

### SECTION AIV: NEW COURSES

#### AIV.1

CUNYfirst Course ID	
Department(s)	Management
Career	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Operations and Decision Analytics
Course Prefix	ODA
Course Number	84100
Course Title	<b>Game Theory and Behavioral Operations</b>
Catalogue Description	The course is a formal introduction to game-theoretical economic modeling and behavioral experimentation in managerial decision-making settings. It involves a rigorous introduction to game theory, behavioral games, and design and implementation of human-subject experiments including data analysis. The course also emphasizes business applications of behavioral game theory including operations and supply chain management, inventory management, and capacity investment. Previous knowledge of mathematical modeling and optimization methodologies is expected from students enrolling in this class.
Pre/ Co Requisites	ECON 72500 or equivalent, which must be approved by the instructor (pre-requisite)
Credits	3
Contact Hours	45
Liberal Arts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<input checked="" type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures      College Option Detail _____ <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its Diversity <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	Spring 2023

**Rationale:** This course is a foundational course in most operations research and decision analytics PhD programs and alike. Its primary focus involves a formal introduction to game-theoretical economic modeling and behavioral experimentation in managerial decision-making settings. The course starts with a rigorous introduction to game theory (*learning outcome 1*). Next is a module on behavioral game theory and an introduction to human-subject experimental design and implementation (*learning outcomes 2 and 3*). The last module emphasizes business applications of behavioral game theory (*learning outcomes 4 and 5*) with particular focus on operations and supply chain management settings.

The specific list of topics includes:

1. Introduction to game theory:

- Static games of complete information (Games in Normal Form, Nash Equilibrium, prisoner's dilemma, public goods games, etc.).
  - Dynamic games of complete information (backward induction, repeated games, bargaining games, etc.)
  - Static games of incomplete information (Bayesian Nash Equilibrium).
  - Dynamic games of incomplete information (Perfect Bayesian Equilibrium, signaling)
2. Behavioral game theory and introduction to human-subject experiments:
    - Dictator, ultimatum, and trust games.
    - Bargaining.
    - Coordination.
    - Signaling and reputation.
  3. Applications to behavioral operations management:
    - Supply chain contracting.
    - Supply chain bargaining.
    - Queueing games.

**Learning Goals/Outcomes:**

1. Students will know foundations of game theoretical modeling including static and dynamic games of complete and incomplete information, and be able to prove relevant theoretical results.
2. Students will know how to formulate behavioral models and design human-subject experiments to test what these models predict.
3. Students will know how to formulate behavioral research questions and identify the appropriate methodology for the research question (including theoretical model, experiment, data analysis).
4. Students will apply the game theoretical and experimental tools to represent business phenomena in relevant industry settings.
5. Students will be able to derive and interpret experimental results to formulate managerial insights.

**Assessments:** The course will use a variety of deliverables by students to assess their understanding of key game theoretical models and behavioral operations management concepts. Students are expected to actively participate in class discussions on a regular basis and should demonstrate the ability to lead discussions on key references such as assigned textbook chapters and journal articles. They will be expected to understand as well as independently derive mathematical results from said references. Therefore, enrolled students should be familiar with mathematical modeling and optimization fundamentals. Students will also be expected to make formal presentations on relevant studies published in leading operations and decision analytics journal including *Management Science* and *Manufacturing & Service Operations Management*. Finally, in-class and/or take-home exams will test students' comprehensive understanding of all concepts covered by the course.

**SECTION AIV: NEW COURSES**

**AIV.1**

CUNYfirst Course ID	
Department(s)	Demography Certificate Program
Career	<input type="checkbox"/> Undergraduate <input checked="" type="checkbox"/> Graduate
Academic Level	<input checked="" type="checkbox"/> Regular <input type="checkbox"/> Compensatory <input type="checkbox"/> Developmental <input type="checkbox"/> Remedial
Subject Area	Demography
Course Prefix	DCP
Course Number	70500
Course Title	Independent Study in Demography
Catalogue Description	This course will allow a student to explore a specific topic in the field of Demography, individually with the close supervision of the instructor. The course may be taught either in-person, online, or in a hybrid modality.
Pre/ Co Requisites	With permission of the instructor
Credits	1-to-3
Contact Hours	
Liberal Arts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Course Attribute (e.g. Writing Intensive, Honors, etc)	
Course Applicability	<input type="checkbox"/> Major <input type="checkbox"/> Gen Ed Required <input type="checkbox"/> Gen Ed - Flexible <input type="checkbox"/> Gen Ed - College Option <input type="checkbox"/> English Composition <input type="checkbox"/> World Cultures      College Option <input type="checkbox"/> Mathematics <input type="checkbox"/> US Experience in its      Detail _____ Diversity <input type="checkbox"/> Science <input type="checkbox"/> Creative Expression <input type="checkbox"/> Individual and Society <input type="checkbox"/> Scientific World
Effective Term	ASAP

**Rationale:**

Independent Study in Demography will offer students the opportunity to explore topics in Demography not covered in courses currently available to them. Offering this option will allow students to master subject matter necessary to progress in a timely way towards achieving the Certificate in Demography.

**Learning Goals/Outcomes:**

Upon successful completion of the course, students will:

- Gain substantive and methodological knowledge in specific topics within the field of demography, which will enable them to
- Think critically about demographic questions they may seek to answer, and
- Become sophisticated consumers and producers of demographic research.

**Assessment:**

Given that this is an independent study, assessment criteria will be established on a case-by-case basis. The

supervising instructor will determine appropriate assignments, papers, or exams that will properly assess the student's mastery of the particular subject focused upon in this Independent Study.