Fall 2019 First Year Seminars

All students must complete a First Year Seminar in the fall or spring of their first year. In no instance will a cap for a FYS exceed 20 students.

Actuarial Science

**ASC 150 Forecasting the Future**

FY1 MWF 12:20-1:10 Whitaker | FY2 TR 12:30-1:45 Whitaker | FY3 TR 2:00-3:15

Actuaries identify, evaluate, and quantify risk. This first year seminar course will examine techniques used by actuaries to forecast the future. The course will be interactive and will make extensive use of simulations based in Excel. Students will learn to make predictions based on past patterns, ranging from sports statistics to bond prices and insurance premiums. There will be classroom debates and group discussions on the challenges actuaries face in reconciling mathematical and social equity. Sample topics will include debating whether younger drivers should pay more for car insurance, discussing if affordable health insurance is a right, and examining the fairness and future of the social security system. Risk management professionals and actuaries will be featured as guest speakers during the semester. Basic Excel spreadsheet skills will be demonstrated and taught.

ART

**ART 150 Blasphemy and Devotion**

FY1 TR 12:30-1:45 Hage

This course explores artists’ and architects’ varied and often controversial responses to issues of religion and spirituality. Prompted by today’s unprecedented globalization and the centrality of religion in politics worldwide, it analyzes artworks and buildings from the late nineteenth century to the present. Students investigate creative reactions to Catholicism, as well as Judaism, Hinduism, Buddhism, Islam, and other forms of Christianity through reading a broad range of texts, writing, individual research, and class discussions.

Biology

**BIO 150L Cells Lab Phage (Honors)**

HN1 TR 12:30-1:45 King Smith

This two-semester Phage Genomics Laboratory Honors course satisfies the lab components of BIO 101: Cells and BIO 102: Genetics. The Fall 101 lab also satisfies the first-year seminar requirement. The genomics lab provides a unique opportunity to participate in an authentic research experience rather than a “cookbook” lab. Designed for freshman Biology, Chemical Biology, or Environmental Science majors in the honors program (although all students in these majors are encouraged to apply), this lab experience combines themes and technology from several specialized biological fields, including microbiology, molecular biology, genomics, and bioinformatics. Application (available on-line here) is required and due by June 20th. Go to the Biology Department website (see Information for incoming students) for more information.
Computer Science

CSC 150 The Joy of Computing
D01 TR 12:30-1:45 Krueger
This First Year Seminar course for majors and non-majors will introduce the basics of computer programming using Python (Joy of Computing) or Alice (Computational Thinking Through 3D Animation). Through programming practice the students will gain an appreciation of computer programs and algorithm development that can be applied in many fields.

CSC 150 Computational Thinking Through 3D Animation
D02 TR 12:30-1:45 Wei
This First Year Seminar course for majors and non-majors will introduce the basics of computer programming using Python (Joy of Computing) or Alice (Computational Thinking Through 3D Animation). Through programming practice the students will gain an appreciation of computer programs and algorithm development that can be applied in many fields.

Decision and System Sciences

DSS The Art & Science of Data Visualization and Decision Making
FY1 MWF 11:15-12:05 Guerra | FY2 MWF 2:30-3:20 Guerra
The human mind can handle significant amounts of information, but is not able to process the large masses of data required for business decision-making. There is a vast number of data processing and visualization technologies, tools, and techniques available to business users, but it is important to first understand how human consumers of information receive and best interpret it. This class uses an interdisciplinary approach to examining the best methods for presenting data visually for meaningful intake. Students will learn a variety of concepts related to information gathering, processing, and presentation, including data visualization tools. Course activities draw from various disciplines including information systems, computer science, cognitive psychology, economics, graphic design, and research methods to examine and evaluate information. Students will present and analyze data sets in graphical form and explain their findings via written, oral, and visual presentations.

Economics

ECN 150 Ripped from Headlines
FY1 TR 2:00-3:15 Fox
Did you ever wonder what the best way is to stop teenagers from texting and driving? What happens when a university cuts tuition by 30%? Why will it cost drivers $15 to drive in midtown Manhattan? Will banning single use plastic bags help the environment? Why is it significant that the unemployment rate is 3.8%, the lowest in 50 years? How will Brexit affect Americans? Should college be free? Why do governments impose tariffs (and what’s a tariff anyway?) when almost 100% of economists surveyed oppose them? Why I should care if you get a flu shot? Why would we even consider raising the minimum wage to $15—and what it is now? How
could a decrease in taxes be bad for the economy? Answers to all of those questions and more can be found in the study of economics. Economics is everywhere—and every day. In this course, we will study economic current events and the underlying economic principles behind them. Some examples will be obvious—unemployment and inflation, breaking up Facebook, “Medicare for all,” “price gouging” during natural disasters, the Philly soda tax. Other stories will not have such an obvious connection to economics, such as the sheriff who earned over $700,000 by feeding prisoners as cheaply as possible and pocketing the rest, which was then legal under Alabama law.

Education

**EDU 150 Schools in Society**  

The course studies American education structurally. The origins, evolution, and realities of contemporary public and private schools are examined through critical readings. Visits to elementary classrooms in multicultural settings provide a strong link to the teacher’s world and the course content. Enrollment in 3-hour per week Field Experience EDU 150F is required with this course. Required for Secondary, 4-8, Education majors. Diversity GEP Overlay

English

**ENG 150 Nature in America**  
*FY1 TR 2:00-3:15 Gilman*

In as many ways as possible, this course will explore nature in America—looking to find out what nature has to offer us as we seek to build healthy and responsible lives. Reading will take us to diverse classics of nature writing. We will take field trip walks to discover the value of nature in the suburbs and in the city. Students will keep nature journals and respond to the literary texts and to nature directly in a variety of writing assignments

**ENG 150 Coming of Age in the City**  
*FY1 TR 12:30-1:45 Lockridge*

This course will examine the experience of coming of age in the multicultural city. We will read texts and watch film that attempt to provide a glimpse of the multicultural world beyond the quotidian experience of majority culture. All texts/films will be fictional and will feature young men and women coming to understand their place in multicultural, urban, centers around the world including: the US, the Caribbean, France, the UK, and Rhodesia. You may find that their unique circumstances mirror your own or even some of the ones you have experienced in texts; you may also find that they do not. This course invites you then to consider literature and film as way to understand yourself, your place in the world, and the people you encounter, but may never know.
Family Business + Entrepreneurship

**FBE 150 Social Entrepreneurship**  
*FY1 TR 8:00-9:15 Kury*  
This course introduces students to the field of social entrepreneurship. Social entrepreneurship is the use of entrepreneurial business skills for the explicit pursuit of creating innovative solutions to social problems. In both non-profit and for-profit ventures, organizations engaged in social entrepreneurship act as agents of social change, creating large-scale social change in their communities or around the world with a heightened sense of accountability to the constituencies they serve and the outcomes created by their efforts. Topics covered will include assessment of opportunities, different business models used in the social sector, acquiring resources required for a new social venture, and measuring social impact.

Finance

**FIN 150 Finance through Movies**  
*FY1 W 6:30-9:15 Curran*  
This first year seminar is designed to introduce students to the field of finance through the lens of movies. Students will gain an understanding of a breadth of topics including corporate form of business entity, corporate governance, and role of a corporation in a society. We will also cover stock trading and role of information in stock trading. Finally we will discuss value creation through mergers and divestitures. *Note: We will be watching “R” rated movies in the class. Please understand that these movies may contain uncomfortable and offensive material. Some of the movies may contain violence, profane language, drug use and/or sexual content. Even if one is comfortable with the material in home or theater setting, they still may find uncomfortable in a classroom setting.*

Food Marketing

**FMK Susten: History, Culture, Future**  
*FY1 MWF 9:05-9:55 Moscato*  
This First Year Seminar course is a journey into our relationship with food. We begin with the importance of food to the development of human civilization and continue by exploring food’s influence to culture and the connection between food, health, and society. Here we explore the evident and hidden ingenuities and injustices that have shaped the modern food marketplace. The final portion of the course will be devoted to understanding the food system with particular emphasis on food justice, regulations, sustainability and other topics of interest.

History

**HIS 150 Reacting to the Past**  
*FY1 MWF 10:10-11:00 Hyson | FY2 MWF 11:15-12:05 Hyson*  
Using an innovative and exciting role-playing method, students in this seminar will “become” political, intellectual, and religious leaders in three famous gatherings held at critical moments in history: the Athenian assembly in 403 BCE, the Grand Secretariat of Ming China in 1587, and
the French National Assembly in 1791. Acting in the roles of these historical figures, students will discuss some of the central questions in political and social thought: Who should hold power in government, and why? What are the respective rights and responsibilities of "citizens," "subjects," and "rulers"? How do we balance the needs of individuals with the demands of the broader community? By reading primary and secondary sources, writing persuasive arguments, and conducting intensive "in-character" debates, students will develop a more active, engaged, and empathetic understanding of both historic events and historical practice.

**HIS 150 Race + Sport in American Society**
*FY3 TR 9:30-10:45 Yates | FY4 TR 12:30-1:45 Yates*
This course uses the sporting arena as a site for important discussions of race, racism, nation and identity. After an introduction to race, we continue with the American context and examine the late 1980s work, Friday Nights Lights, a microstudy of high school football in a small Texas town and Latino experiences playing America’s past time, baseball. This course concludes with selections on the intersections of economic gain, identity, nation and sports in the 21st century. Assignments include weekly responses, reading quizzes, exams, a research paper and research presentation. The research paper will require the students to follow a story on race in sports in America.

**International Business**

**IBU 150 Cultural Diversity + International Business**
*FY1 TR 5:00-6:15 Neiva de Figueiredo*
The course develops the understanding that cultural diversity is a crucial component of sustained and productive cross-border interactions in general and international business in particular. It discusses the power of diversity whereby the whole can be made greater than the sum of the parts. Through in-class exercises and out-of-class assignments, the course leads students to accept that their framework for looking at the world around them, i.e., their worldview, may be very different from that of other cultures. The course encourages students to explore their comfort level with different views of the world through experiential exercises and through investigation of some causes for differences across cultures. It introduces and develops critical thinking regarding the role of business and its obligations to all stakeholders while developing the notion of corporate social responsibility. First Year Seminar, Diversity, Globalization

**Interdisciplinary Health Services**

**IHS 150 Global Healthcare**
*FY1 MWF 12:20-1:10 Okunna | FY2 MRF 1:25-2:15 Okunna*
This is a first year seminar course designed to introduce non-major students to several major themes of American health care and to a comparison of this country’s health care system in relation to the health care systems of other countries. These macro health care issues include
the social, political, and cultural foundations for health care, the economics of health care delivery, the ethical frameworks countries use to establish their interpretation of acceptable performance and behavior, the process by which the United States and other countries develop and implement their health policies, and what are now global trends for health care regardless of historical past, political system, or social cultures. The course requires significant analysis and critical review, application of data mining and literature reviews to study the unique aspects of the American health care system and how this system compares to those of other countries. Globalization

Linguistics

LIN 150 Lang Ling in the Real World
FY1 MWF 11:15-12:05 Cinaglia
It is of particular interest and benefit to students pursuing various specialties including, but not limited to, Second Language Studies; English; Communication Studies; Speech Therapy; Autism Studies; certain specialties within Education, Sociology and Psychology; and Linguistics. This course is geared toward helping students become consciously aware of the role of language in their daily lives (i.e., in the "Real World"). They will be taught to recognize linguistic features of language(s) and will explore current research findings in linguistics. They will also be encouraged to be "linguists" themselves in the sense that they will document and analyze language-related issues commonly found in daily communicative interactions. The course is divided into six sections: (1) Language & Linguistics; (2) Language & Translation; (3) Language & Acquisition; (4) Language & Cultural Change; (5) Language, Power & Identity; and (6) Language & Communication. This course also counts toward the Linguistics minor.

Management

MGT 150 Work is Our Fire
FY1 MWF 12:20-1:10 Nelson | FY2 MWF 11:15-12:05 Nelson
Is our work who we are? Drawing from the social sciences, this seminar encourages students to approach work as the essence of being—our “fire”—and working as a journey of experience and expression of dignity and not solely as a burden or means to make a living. Students will isolate and interrogate social and economic class stereotypes, misconceptions, and attitudes concerning a variety of jobs and professions as well as possible origins for these perceptions. The concept of occupational identity is introduced to illustrate how work can consume us (positively and negatively), how we can assume our working role as part of our understanding of “self,” and how we see others based on our attitudes about their occupational roles. Discussions will tackle definitions of success, legacy, respectability, prestige, materialism, workaholism, stress, and professionalism and how our definitions are influenced by personal and cultural values.
Marketing

**MKT 150 People, Planet, and Profit**
*FY1 TR 8:00-9:15 Phillips | FY2 TR 9:30-10:45 Phillips*

This freshman seminar helps students understand the responsibility they have to live a more sustainable lifestyle, persuading others to live a sustainable lifestyle, and acting as key influencers in persuading businesses and other organizations in becoming more sustainable. Students learn how individuals, the environment, and organizations can exist in harmony with one another.

Math

**MAT 150 Discoveries in Mathematics**
*HN1 TR 3:30-4:45 Smith*

This course will survey famous discoveries from the historical development and areas of current interest in mathematics. Classical topics will be chosen from among the following: Euclidean and non-Euclidean geometry; prime numbers; Diophantine equations; the discovery of calculus; the crisis of foundations; Galois theory; Euler characteristic; Cantor’s set theory; and Gödel’s Incompleteness Theorem. Contemporary topics will include an analysis of the role of privilege, race, and gender in mathematics, open questions and proven conjectures, and recent trends in the field. Some of these topics will be presented as the result of individual student research projects. The subject matter in this course will range from elementary logic, number theory, and geometry to topics at the frontiers of mathematics. Our approach to advanced and contemporary topics will be journalistic in nature and will involve a critical examination of web and popular media depictions of mathematics. The goal of the course is to introduce students to mathematics as a living discipline with a rich cultural, philosophical, and scientific history. There are no prerequisites beyond high-school mathematics.

Modern and Classical Languages

**MCC 150 Learning Across Cultures**
*FY1 MWF 9:05-9:55 Daniel*

This course is intended for students from cultures outside the United States as well as for U.S. citizens who speak other languages and are interested in studying other cultures or who will study abroad. The course has a double focus. First, we will learn about the process of learning in general. Second, we will study cultural frameworks and intercultural communication and reflect on how culture influences education. The goal is to help students learn more effectively and to have strategies for dealing with difficulties and challenges during their university education, and to give them tools for collaborating effectively with persons from diverse backgrounds. Highly recommended for non-native speakers of English, for bilingual or multilingual students and for anyone studying abroad (or anyone intending to study abroad).
MCC 150 Iconic Women of Latin America

FY2 TR 2:00-3:15 Hennes

This First Year Seminar takes a critical look at the representations of several iconic Latin American women, in particular Malintzin/La Malinche, the Virgin of Guadalupe, Sor Juana Inés de la Cruz, the Manuela Sáenz, the Mirabal sisters (a.k.a. the Butterflies) and Rigoberta Menchú. Primary sources include paintings, literary works, film and other artistic rendering. Secondary sources draw from the fields of cultural studies, cultural history and social history. As we examine diverse representations of these figures, we describe the symbiotic relationships between the myths that surround them and their historical, political and cultural contexts. This analysis is based on the issue of gender norms past and present. As we explore the course material, we will discuss learning styles, note-taking and reading strategies, how to conduct library research, how to write for diverse purposes (including a research paper), and how to deliver a research presentation. Daily class discussions will rely heavily on the active and informed participation of students.

Music, Theatre, and Film

MTF 150 Music, Sexuality, and Gender

D01 MWF 12:20-1:10 Morgan

This course explores the ways that music expresses sexual orientation and gender by examining a variety of American and Western European music. Students will learn how the expression of sexual and gender identity exists in a web with the articulation of other aspects of identity, including race, class, and ethnicity. The course will challenge the ways in which we conceive of gender, and pose alternatives to the binaries that constrain our thinking. Rather than focus on a single style of music, this course will span classical, jazz, popular, and film genres, concentrating on case studies.

Philosophy

PHL 150 Six Impossible Things Breakfast

D01 MWF 10:10-11:00 Brokes

In Through the Looking Glass, the White Queen (who lives backwards) tells Alice that she has sometimes “…believed as many as six impossible things before breakfast.” Is it possible to believe the impossible? And if it is, should we believe impossible things? Of course most of what we believe isn’t merely possible or impossible. We typically believe things that are likely to be true – that are probable. This class examines the nature of possibility and probability and the various roles that these concepts play in human reasoning. The fundamental question we will try to answer is, "when it is rational to believe that something is true?"

PHL 150 Freedom and Control

SLR MWF 11:15-12:05 Boettcher

This course will examine historical and contemporary philosophical approaches to the classic problem of free will and determinism problem with special attention paid to the free will
questions raised by substance use disorder and addiction. Additional topics may include: rival conceptions of political freedom, origins of and reflections on the U.S. opioid crisis, homelessness, drug policy, mass incarceration, or other contemporary issues relevant to the SJU service-learning program and its partner institutions and placement sites in and around Philadelphia. Both classroom meetings and course requirements will provide opportunities for academic study to inform – and to be informed by – sustained and meaningful personal reflection on service experiences. *Students who enroll in this class also commit to 3 hours of service per week as part of the class and will take PHL 154 SLR in the Spring as the second course in the sequence. If you have questions, please contact Ann Marie Jursca Keffer (ajursca@sju.edu).*

**PHL 150 Food, Justice, Sustainability**

*SL2 MWF 10:10-11:00 McDonald*

It’s indisputable that we face complex moral issues related to food: How should we respond to the problems of global hunger in the 21st century? How should we respond to the fact that millions of children and adults on our planet are severely malnourished, if not facing starvation? Are our current means of food production sustainable? And do they threaten the health and well-being of future generations? What moral challenges are raised by the use of biotechnology in food production and processing? How can we provide safe, acceptable, nutritious food for all persons in such a way that is respectful to the welfare of all sentient beings? This course is devoted to a rigorous study of these complex issues. It is also a service-learning class, which will engage students in weekly service at a number of anti-hunger organizations in the Philadelphia area. *Students who enroll in this class also commit to 3 hours of service per week as part of the class and will take PHL 154 SLR in the Spring as the second course in the sequence. If you have questions, please contact Ann Marie Jursca Keffer (ajursca@sju.edu).*

**Pharmaceutical Marketing**

**PMK 150 Smart Healthcare Consumer**

*FY1 TR 3:30-4:45 Trombetta | FY2 TR 8:00-9:15 Del Conte*

This is a course that covers the whole range of healthcare from top to bottom and left to right. We start off with the infrastructure of healthcare, much more than just docs, nurses, hospitals, etc. AND OUR FOCUS IS ON: JOBS, JOBS, JOBS: HOW TO FIND JOBS, HOW TO GET A JOB: healthcare is growing and dwarfs every other sector you could try to get a job in such as defense, education, food, and just about every other sector.

MACRO ASPECTS: Yes, this is a healthcare course but we have to discuss those macro aspects that can get in the way of healthcare access and affordability such as: taxes, welfare, disability, inequality (the gini coefficient), labor/unions, pensions and retiree benefits. OBAMACARE: we go into detail on The Affordable Care Act when we get back from Fall Break 3 MOVIES: Michael Moore’s Sicko; Harrison Ford’s Extraordinary Measures (why drug prices are so high especially for so-called orphan diseases like the one in this movie: Pompey’s Disease); and the Dr Sanjay Gupta Special: Fire Ice. So we will cover just about everything that has to do with healthcare with an emphasis on career opportunities and jobs.
Since its founding, America has prided itself on the principle of equality in the political arena. Unlike European communities, the United States did not inherit a system of economic class distinctions. Nonetheless, there have always been empirical inconsistencies between the rhetoric of equality and the actual lived experience of democracy in America. While it is true that the U.S. has “democratized” many aspects of its political system, it is also the case that America has become increasingly unequal in terms of social, political, and economic indicators over the past three decades. Inequality in wealth distribution inherently structures and impacts other cleavages within the U.S. polity such as race/ethnicity, class, gender, and sexuality, which may undermine a truly informed and participatory democratic system. This course will analyze patterns of diversity, inequality, and uniformity across the U.S. in terms of race/ethnicity, class, gender, and/or sexuality as well as the corresponding policies, interest groups, and representatives that attend to these issues. Specifically, we will discuss how these patterns affect democratic governance in the U.S. – in other words, whose voices are reflected in the political world and where? The course’s substantive focus will critically examine the relationship between the empirical evidence of diversity/inequality and the three major aspects of the political system: voice, governance, and policy. We will study the issue of diversity and inequality from a variety of perspectives: political theory, political participation, social movements, public opinion, interest groups and organizations, the media, elected officials, public policy, and governing institutions. Students who enroll in this class must also commit to 3 hours of service per week as part of the class and will take THE 154 SLR in the Spring as the second course in the sequence. If you have questions, please contact Ann Marie Jursca Keffer (ajursca@sju.edu).

What is morality in international politics? Is ethical reasoning and action possible in international affairs? If possible, when and how? Proponents of IR Realist often claim that there is virtually no room for morality in international affairs, and states and state actors are rational thinkers in the state of international anarchy. For them, ethics are simply luxury and irrelevant. On the other hand, thinkers under the tradition of IR liberalism/idealism emphasize the ethical dimension of state decision making and state behaviors. On what moral ground or ethical reasoning, are the moral behaviors taken place and observed/unobserved? The primary objective of the course is to help students enhance their analytical ability for the study of international ethics. To this end, the course will explore the main traditions and theories of international ethics with a focus on such topical areas as just war and use of force, universal human rights and humanitarian intervention, global environmental problems, and international justice.
Psychology

**PSY 150 Gender Matters**  
*FY1 MWF 10:10-11:00 Lacombe*
This course provides an overview of research and theories on the biological, psychological, and the social aspects of gender. Areas of similarities as well as differences between men and women will be discussed. Significant attention will be given to the impact gender has on the everyday lives of women and men in contemporary American society today. Does not count toward Psychology major or minor.

Risk Management + Insurance

**RMI 150 Nat Disast and Com Recov**  
*FY1 MWF 9:05-9:55*
The goal of this course is to empower students to use primary and secondary sources to investigate community recovery from natural disasters. The research will highlight the economics and social impact of insurance. Specifically, students will compare and contrast community recovery from different types of natural disasters while evaluating the successes and/or struggle of insurance products in aiding community recovery from natural disasters. *May only fulfill the GEP First-Year Seminar requirement. Does not satisfy any major or minor Risk Management & Insurance requirement. Does not satisfy any free elective credit.*

Sociology

**SOC 150 Social Problems + Change**  
*SL1 TR 9:30-10:45 Bergen*
This course is designed as a seminar to enhance your first year experience and provide a detailed sociological analysis of the major social issues confronting college students today. During the course of the semester we will explore contemporary issues in the college culture such as substance abuse, intimate partner violence, the hookup culture, mental health issues, poverty and disordered eating. We will study the history of these issues, prevalence, consequences, policy implications and avenues for social change. Particular attention will be given to the structural causes of these issues and how factors such as gender, race, social class, sexuality, and age influence college students' experiences and shape the college culture.

**SOC 150 What's in a Neighborhood**  
*SL2 MWF 10:10-11:00 Clampet-Lundquist*
This freshman seminar course examines the most significant contemporary social problems in our culture. Issues are examined from a sociological perspective that is enhanced by students'
work at service sites. This is the second part of a 2 semester course sequence for first year students. Prerequisite is SOC 102 Service Learning/Freshman Seminar.

Theology

THE 150 Religious Vision in Fiction + Film
FY1 TR 9:30-10:45 Aspen
This course introduces fiction and films that are driven by religious sensibilities and theological insights. Issues rising throughout the course include deity, sin, forgiveness, grace, redemption, virtue, and community. Student expectations entail critical analysis and theological reflection, as well as a very basic grasp of the phenomenon of human religiosity.

THE 150 Ignatius and the City
FY2 TR 3:30-4:45 Joyce
Five centuries ago Ignatius of Loyola (1491-1556), founder of the Society of Jesus (Jesuits), was using social context as a necessary component of theological reasoning. To give early Jesuits the proper context within which to maintain their spirituality and develop their theology, Ignatius directed them to live with the poor of the cities of Europe, debate theology at the highest levels of society, hear confessions, preach in the streets, and tend the sick and under-represented in the most wretched urban areas. Out of this experience developed a strategy for a new urbanism and the elements of a new missiology. This course reviews the theology and spirituality of Ignatius of Loyola and how his early followers in the Society of Jesus established a particular missiology. It includes a thorough study of the network of ministries created by the first generation of Jesuits in Rome with particular emphasis on: the urban context, the use of the arts and architecture, ministry to the economically under-represented. An examination of how that missiology has been used in and around the City of Philadelphia in the 18th, 19th and 20th centuries will be part of the course. An analysis of how a Jesuit urban strategy was or was not maintained by later Jesuits will be included.