



# PRE-FIRST YEAR PROGRAM (PFP)

SATURDAY, JULY 23RD - SATURDAY, AUGUST 20TH

## WHY PFP?

- Take Classes, Get Credit
- Early Access to Penn
- Social & Cultural Events
- Academic Advising
- Community Building
- Meet Penn Faculty
- **FREE** Housing, Meals & Weekend Events

OPT-IN BY JUNE 3RD

2022

# PRE-FIRST YEAR PROGRAM

JULY 23-AUGUST 20



## ? WHAT IS PFP?

The Pre-First Year Program (PFP) provides students with comprehensive support services, beginning with an intensive 4-week academically-focused summer program and continuing with advising, counseling, educational workshops, and social/cultural activities throughout the students' undergraduate experience at Penn. Students who have participated in this program have had a more positive college transition and Penn experience.

## ABOUT THE PROGRAM

The 2022 program will begin Saturday, July 23rd and end Saturday, August 20th. The program is residential and students will stay on campus for 4-weeks. Room, Board and meals are free. We will provide additional grant funding to cover lost summer earnings. Each student is assigned a Peer Mentor who helps familiarize them with life at Penn and university resources.

## WHO ARE PFP STUDENTS?

PFP students are typically from small towns or public urban high schools, athletes, or other students with demanding schedules; first-generation college students; income-eligible students; or students interested in getting a head start on their college careers.

## ACADEMICS

Penn faculty from the four undergraduate schools develop the PFP academic component. Each school presents its own curriculum, which includes rigorous, credit-bearing courses and other academic experiences, designed to prepare students for their respective areas of study.

### The Wharton School (1 Credit)

Math  
Writing Seminar  
Economics  
Management  
Communication

### School of Engineering & Applied Science (1 credit)

Math for Engineers  
Engineering Mechanics  
Engineering Lab  
Engineering Programming

### College of Arts & Sciences Sciences/Pre-Health (1 Credit)

Math  
Writing Seminar  
Biology

### College of Arts & Sciences Humanities/Social Sciences (1 Credit)

Math  
Writing Seminar  
Political Science

### School of Nursing (1 Credit)

Writing Seminar  
Nursing Science  
Nursing Labs

## PROGRAM BENEFITS

- Preparation for the academic rigors of a Penn education
- One-on-one interaction with world renowned faculty in both academic and non-academic settings
- Training in college study strategies and time management
- Academic, personal, and career counseling
- Peer mentoring
- Information about campus resources and support services
- Opportunities to form a strong peer support network and become part of a larger, supportive community
- Workshops on topics of interest to first-year students
- Community-building activities



# PFP 2022 ACADEMIC PROGRAMS OPTIONS GUIDE

Welcome to the University of Pennsylvania 2022 Pre-First Year Program. Your course selections for PFP are determined by your primary school of enrollment. All the academic programs have been designed by the faculty of the undergraduate schools specifically for the Pre-First Year Program. They will be challenging, engaging, and stimulating. Perhaps more importantly, they will provide you with a chance to meet important faculty and become accustomed to their styles and expectations. Some courses, such as Writing and Math, are common to more than one school. Others, such as Economics or Physics, are specific to individual schools. The various school curricula are described in the following pages – a few specific notes will be helpful:

- ☐ **Writing:** Students enroll together in writing seminars regardless of their school enrollment, with the exception of Engineering students who do not have a writing seminar.
- ☐ **Math:** Incoming first-year students should take the **Online Canvas Math Diagnostic Placement Exam** during the advance registration period. The results of the Math Diagnostic will be discussed with your advisor and the exam score will be used, in conjunction with a student's math experience and standardized test scores, to determine the appropriate placement in a Math course, including your PFP math course. Although Nursing students do not take Math during the Pre-First Year Program, it is still advisable that they complete the Math Diagnostic to better prepare for academic-year planning. Instructions on taking the exam will be provided at a later date.
- ☐ **SEAS:** Students in Engineering automatically take Engineering Math, regardless of assessment results. Students will be tracked after week one or two of the program.
- ☐ **SAS:** Students in the College of Arts & Sciences may select a curriculum focused on Sciences or a curriculum focused on Humanities/Social Sciences, depending on interest and long-term goals.

**\*\*\* You will make your program selection on the Pre-First Year Program Application Form \*\*\***

# PFP 2022 ACADEMIC PROGRAMS

Engineering	Wharton	Nursing	Arts & Sciences <i>Sciences/Pre-Health</i>	Arts & Sciences <i>Humanities/Social Sciences</i>
Engineering Math	Mathematics <i>(level based upon assessment results)</i>	Nursing Science	Mathematics <i>(level based upon assessment results)</i>	Mathematics <i>(level based upon assessment results)</i>
Engineering Physics	Writing	Nursing Lab	Writing	Writing
Engineering Lab	Economics	Writing	Biology	Political Science
Programming	Management Communication			

Please see course descriptions for detailed course content. PFP courses serve as a preview or introduction to the course material and do not replace courses that students might register for during the academic year. Courses may be subject to change.



Welcome to the University of Pennsylvania Pre-First Year Program. You will be placed in the appropriate curriculum depending on your primary school of enrollment. Only in the College of Arts & Sciences do students have options. The following short descriptions are designed to help you get a feel for the courses you will be taking this summer. Descriptions are subject to change.

<b>Courses common to more than one school</b>	<b>Writing</b>	<b>English Writing: Place and Belonging</b>  This writing-intensive course is designed to give students a clear sense of the demands and expectations of college-level writing. Although the class focuses mainly on writing about literature, students will learn general principles and strategies for good writing in various disciplines and genres. “Place and Belonging” will introduce students to a range of writing about the ways our social and geographical locations shape our sense of self and our personal feelings of connection or alienation. Students will read a short novel, stories, essays, and poems by authors from the U.S. and abroad. All these works are attempts to give written form to the relationships between people and the places they inhabit.  Students will do some kind of written work for every class meeting and will have opportunities to read and comment on one another’s writing. There will be weekly formal writing assignments, including one full-length essay. In order to receive academic credit for the class, students are required to attend all meetings and to complete all related assignments (or obtain advance permission to miss any meetings they cannot attend), to complete all reading assignments, and to submit all written work on time.
	<b>Mathematics</b>	There will be several math course options for College of Arts and Sciences and Wharton students. Your math course assignment will be made based upon the results of the Math Diagnostic Exam.  <b>Math A:</b> Covers Sets, Logic, Number Theory for students with little math experience or interest. Prepares students for Penn Math 170, or Math 103 <b>Math B:</b> Covers Intense Algebra and Pre-Calc Review, Introduction to Limits for students who are may or may not be confident in their math preparation and could benefit from a review of Algebra and Pre-Calculus. Prepares students for Math 103. <b>Math C:</b> Covers a quick Pre-Calc review, Limits, Derivatives for students who have taken AB Calculus and are confident in their performance. Prepares students for Math 103. <b>Math D:</b> Covers Derivatives, Applications, Integrals for students who have taken BC Calculus and are confident in their performance. Prepares students for Math 104.  Please note that students will be placed in the course that aligns with the Math Diagnostic score.

<b>NURSING</b>	<b>Nursing Science</b>	<p>This course uses an interdisciplinary approach to study diabetes mellitus. The basics of general, biological and nutritional chemistry as well as the physiology necessary for an understanding of the metabolic basis of diabetes mellitus will be covered. The course includes lectures, anatomy and nursing physical assessment laboratory activities, and application of knowledge via case study discussion. The course is designed to provide an introduction to the Nursing curriculum and related skills using the disease diabetes mellitus as its framework. In addition to classroom lectures, an introduction to physical assessment and nursing interventions for patients with diabetes, anatomy laboratory activities, and exposure to nursing research are provided.</p> <p>The course will stress active student learning.</p>
<b>WHARTON</b>	<b>Economics</b>	<p>This course will be an introduction to the semester-long integrated economics course consisting of two parts— microeconomics and macroeconomics—that Wharton students will take during the Fall semester of their first year. The PFP course, which will consist of lectures, assignments and two exams, will focus on selective topics from microeconomics as well as macroeconomics. In the microeconomics part, the PFP course will focus on an analysis of consumer behavior (specifically, utility analysis, indifference curves framework, demand elasticity), cost structure of firms and their pricing, and output behavior under perfect competition. In the macroeconomics part, students will study measurement of national output, nature of full employment, inflation rate, determinants of long-run economic growth and introduction to the Aggregate Demand-Aggregate Supply (AD-AS) model used to analyze business cycles.</p>
	<b>Management Communication</b>	<p>Management Communication introduces students to strategies for developing leadership skills that are essential for successful matriculation through Wharton and laying the foundation for a professional career. The course places emphasis on self-reflective writing, oral presentations and teamwork while exploring topics such as emotional intelligence, conflict resolution, goal setting, time management, business etiquette and personal branding. In addition, the students work in teams to conduct a market analysis for a start-up company.</p>

<b>ENGINEERING</b>	<b>Engineering Math</b>	This course will provide a preview of Engineering Mathematics at Penn. It is customized to interface with Penn's Engineering Calculus sequence. The course begins with an overview of what Mathematics is and is good for, and then will split into single-variable and multi-variable tracks depending on student backgrounds. Everything is designed to show how the Mathematics will be relevant to the many types of Engineering majors available at Penn. Students will come out of the course ready for any mathematical challenges and better-informed about what Engineering at Penn means.
	<b>Engineering Mechanics</b>	This course covers classical physics as applied to the kinematics and dynamics of static and of moving bodies. It begins with a description of position, velocity and acceleration (kinematics), and explores how these concepts can be used to describe and understand the motion of a particle through space. The course then addresses the question of what causes motion (dynamics), and this leads to the concept of force. The connection between kinematics and dynamics is then made through Newton's three laws of motion and, specifically, through the vector equation, $F = ma$ . The remainder of the course discusses various applications of these ideas.
	<b>Engineering Lab</b>	This course is a four-week multi-disciplinary orientation in the School of Engineering and Applied Science. Each academic department will present an overview of the course requirements, along with careers and research opportunities. Each overview will be followed by a lab to reflect the academic experience of that discipline. The class will culminate in a final project, integrating mechanical and electrical engineering, as well as computer science.
	<b>Programming</b>	The course will give students experience in designing, writing, and debugging basic programs in Java. Students will be introduced to the fundamentals of programming with variables, data types, control flow, and functions. The assignments will allow students the opportunity to solve real problems using their new skills in programming.

<b>ARTS &amp; SCIENCES</b>	<b>Biology</b>	Topics covered will include cellular respiration, genetics, and molecular biology. This course will use lectures, class discussion of current topics, group work, practice questions, quizzes, and lab to help students understand important concepts and develop skills needed to succeed in college-level biology courses.
	<b>Political Science</b>	<p><b>“Making Sense of the 2022 Midterm Elections”</b></p> <p>The upcoming midterms elections this November may prove to be some of the most consequential in the history of the United States. In this course, we are going to learn how to use political science to understand what sort of outcomes we should expect in these elections and the consequences of these outcomes for American Politics. Some of the topics that we will explore include voter behavior, political polling, voter disenfranchisement and electoral integrity, and policy making. Skills that we will work on developing include differentiating between positive and normative theories of political science, how to read and take notes about scholarly work, how to apply critical thinking and analysis skills to polling data and writing and presentational skills.</p>