

Class of 2011

Handbook



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USING THIS HANDBOOK

The *Class of 2011 Handbook* is designed to provide students with the information essential for beginning their academic career. It also serves as an introduction to the many academic options and services available to students in the College. It is recommended that students retain this handbook throughout their time at Penn. Rules and regulations change over time, and as they do, so will the website. This handbook will serve as the official record of the policies in place at the time the student entered.

The College website, www.college.upenn.edu/, is the authoritative source of information for College students on academic options, requirements and College policies. It also provides many links that connect to other important resource offices around campus. Students are expected to familiarize themselves completely with the College website as soon as they can and to seek answers there first.

For information specific to incoming freshmen, see www.college.upenn.edu/freshmen/.

NAVIGATING THE COLLEGE WEBSITE

www.college.upenn.edu

The three-tiered navigation system allows viewers to scan topics deep within the site.

College site A-Z

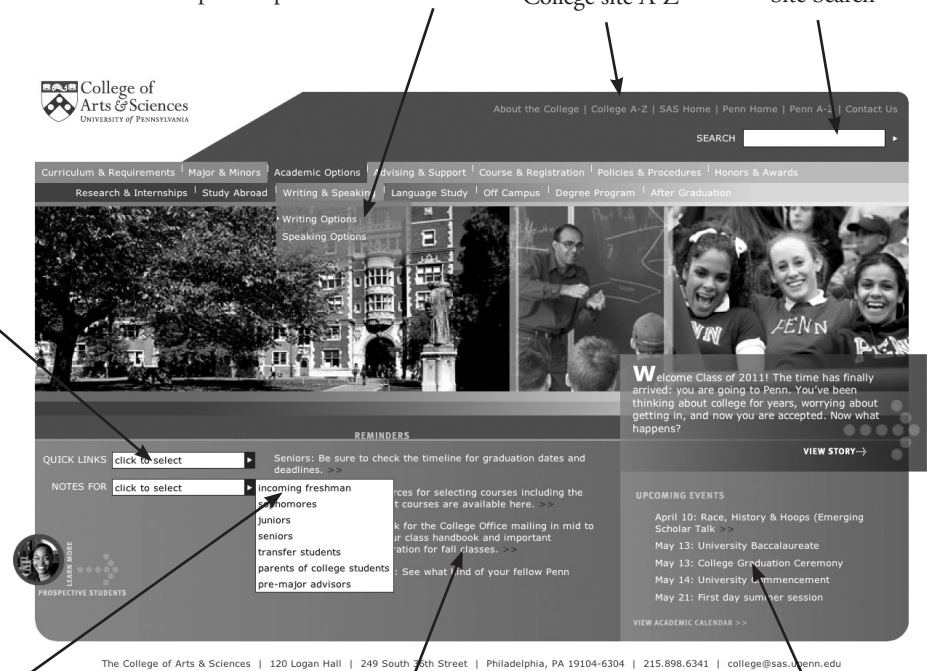
Site Search

Quick Links

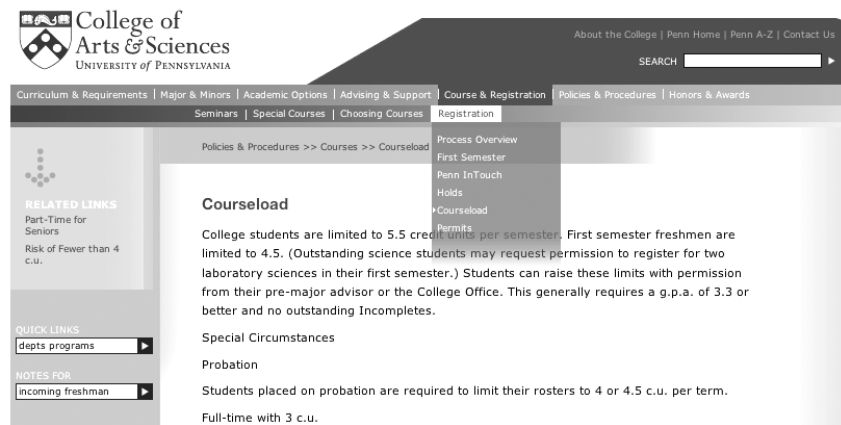
Links in this drop-down menu go to some of the pages and sites most visited by College students.

Notes For

By selecting “Incoming Freshmen,” first-year students can find information to help them keep on track for their first semester at Penn.



On pages within the site, pay particular attention to related links.



TIMELINE FOR INCOMING FRESHMEN

Early June

- Set up your PennKey and email account. The Office of Information Systems and Computing sends incoming freshmen a PennKey set-up code in early June. If you did not receive this mailing, or for further information, visit www.upenn.edu/computing/pennkey/. Once you have your PennKey, visit www.sas.upenn.edu/computing/newaccount/ to create your Penn email account.

Mid-June

(Complete the steps below before your discussion with your pre-major advisor.)

- The packet containing this handbook also contains contact information for your pre-major and peer advisors and a listing of courses recommended for freshmen. Read this material carefully and familiarize yourself with the College website, www.college.upenn.edu/.
- Consult the information on advanced placement beginning on page 20 to determine what type of credit (if any) you are likely to receive.
- Log onto the academic blog and complete the freshman questionnaire, www.college.upenn.edu/freshmen/blog.php. When the questionnaire is completed, the first of two registration holds will be removed. (For more on registration holds, see page 56.)
- View the five-minute Registration Tutorial at www.college.upenn.edu/registration/ and review the print and on-line resources for choosing courses, www.college.upenn.edu/courses/selection.php.
- When you have completed the steps above, contact your pre-major advisor to set up an advising appointment via phone or in person.

June 25 - July 27, 2007 Advance Registration

- Speak with your pre-major advisor about your academic and intellectual goals. A few minutes reading "Suggestions for Incoming Freshmen" at www.college.upenn.edu/freshmen/suggestions.php will help you prepare for this conversation.
- With the advisor's guidance, choose eight to ten courses to request for your first semester. Your final courseload will be between 4 and 4.5 credit units (usually four courses). When your advisor feels that you are ready to register, he or she will remove the second registration hold.
- Tune in to the live advising webcast(s) with the Dean of the College, Dean of Freshmen and faculty and College advisors. See www.college.upenn.edu/freshmen/webcast/ for dates and times.
- Enter your course requests in Penn InTouch, <https://sentry.isc.upenn.edu/intouch/>. See pages 26-28, view the Registration Tutorial and ask your peer advisor for assistance.

August

- Check your schedule in Penn InTouch beginning on the morning of August 7.
- You may need to add to or adjust your initial schedule so that you are enrolled with 4 to 4.5 credit units. Contact your pre-major advisor if you have questions.
- With the help of your peer advisor, create an academic planning worksheet in Penn InTouch. See page 18 for more on the worksheet.
- Check the New Student Orientation schedule for College activities and events, including the Penn Reading Project. See www.upenn.edu/nsol/.
- August 31: Freshman move-in day. Dean's and departmental receptions are 1:30-3:00 P.M., Hall of Flags, Houston Hall.

Also see the Academic Timeline at www.college.upenn.edu/advising/timeline.php.

ACADEMIC CALENDAR

Fall Term 2007

June 25 – July 27	Mon–Fri	Advance Registration for Freshmen
August 30	Thurs	Move-in for first-year students; NSO activities begin
Aug 31 – Sept 7	Fri–Fri	Placement exams (Check the NSO calendar.)
September 2	Sun	Penn Reading Project (Check the NSO calendar.)
3	Mon	Labor Day
4	Tues	Advising, Opening Exercises, Freshman Convocation
5	Wed	First day of class
14	Fri	Last day to add writing or language courses below 200-level
21	Fri	Last day to add a course
October 12	Fri	Last day to drop a course or change grade type
13–16	Sat–Tues	Fall term break (begins at close of classes on Friday)
17	Wed	Classes resume at 8:00 A.M.
20	Sat	Homecoming
Oct 29–Nov 11	Mon–Sun	Advance Registration for spring term
November 2–4	Fri–Sun	Family Weekend
16	Fri	Last day to withdraw from a course
21–25	Wed–Sun	Thanksgiving break (begins at close of classes on Wednesday)
26	Mon	Classes resume at 8:00 A.M.
December 7	Fri	Fall term classes end
8–11	Sat–Tues	Reading days
12–19	Wed–Wed	Final examinations
19	Wed	Fall term ends

Spring Term 2008

January 16	Wed	Spring term classes begin
21	Mon	Martin Luther King, Jr. Day observed
25	Fri	Last day to add a writing or language course below 200-level
February 4	Mon	Last day to add a course
22	Fri	Last day to drop a course or change grade type
March 7–16	Fri–Sun	Spring term break (begins at close of classes on Friday)
17	Mon	Classes resume at 8:00 A.M.
Mar 24 – April 6	Mon–Sun	Advance Registration for fall and summer classes
March 28	Fri	Last day to withdraw from a course
April 29	Tues	Spring term classes end
April 30–May 2	Wed–Fri	Reading days
May 5–13	Mon–Tues	Final examinations
17	Sat	Alumni Day
18	Sun	Baccalaureate, College Graduation
19	Mon	Commencement

Summer Sessions 2008

May 26	Mon	Memorial Day (no classes)
27	Tues	12-week evening session and first summer session begin
July 3	Thurs	First summer session classes end
4	Fri	Independence Day (no classes)
7	Mon	Second summer session classes begin
August 15	Fri	12-week evening session and second summer session end

See the College homepage, www.college.upenn.edu, for upcoming events and timely reminders for College students.



Dr. Dennis DeTurck
Dean of the
College of Arts and Sciences
Professor of Mathematics

WELCOME FROM THE DEAN OF THE COLLEGE

Dear Members of the Class of 2011,

The time has finally arrived: you are going to Penn. You've been thinking about college for years, worrying about getting in, and now you are accepted. Now what happens?

What happens next is an adventure, I promise you. Your four years in the College of Arts and Sciences will astonish, anger, amuse and challenge you. You will surely find everything you need here to blaze your way to a brilliant career, but we hope you will also experience the pleasures of learning for its own sake. This is the one time in your life when all we ask of you is to learn, to think, to experiment, to dream.

This handbook and the College website provide much of the practical information that you need to get started at Penn and to plan your way through the next four years. It can seem like a bewildering excess of information, since the College offers nearly 2,000 courses and approximately 50 majors, but with the aid of your teachers and advisors and your own intellectual curiosity, you'll come to make sense of it. If you would permit, I'd like to offer the following advice of my own.

Never underestimate yourself. Seek the most challenging courses and programs of study, and never assume that you aren't good enough to succeed in them. The faculty are there to help you stretch your intellectual muscles and train them. If you get in over your head, we can help.

Take chances. One of Penn's strengths is the breadth of its academic programs, in both the College of Arts and Sciences and the professional schools. Go beyond the subjects you studied in high school and explore new territory: try a new language, explore an unfamiliar part of the world or follow new directions in science with researchers who are making ground-breaking discoveries.

Plan ahead. When you explore, it's best to have a map in hand. For example, many majors require that you take preparatory courses in their own and other departments. If you want to study abroad you should think about your language courses. Your academic advisors and the faculty stand ready to guide you.

Think outside the classroom. Learning at Penn happens everywhere: in the classroom, to be sure, but also in the college houses, at lectures from world-renowned speakers, in concert halls and museums and in the Philadelphia commu-

nity. Take advantage of the resources available only at a great university like Penn, set in an extraordinary city.

Do your own research. It's one thing to learn about discoveries in science, social science or the humanities. It's quite another thing to make your own discoveries. Our graduates report that one of the most valuable aspects of their Penn education was engaging in a research project, whether an experiment in cognitive neuroscience, a study of a rare manuscript or an analysis of South American trade policies (just to give a few examples). Our Center for Undergraduate Research and Fellowships can help.

As the faculty, advisors and staff of the College of Arts and Sciences, our goal is to guide and inspire you in the next four years. It is widely recognized that a liberal arts education is the strongest foundation for success in business and most professions. What is just as important, however, and what will remain with you for the rest of your life, is the excitement of discovery and the pleasures of the life of the mind that are at the core of that experience. Bring to Penn all the considerable talent, energy and intelligence we saw in you when you were admitted, and we promise you will not be bored. I look forward to meeting you during the next four years and hearing the stories of your own adventure.

Dennis DeTurck

Dean of the College of Arts and Sciences
and Professor of Mathematics

FROM THE DEAN OF FRESHMEN

Why have you come to the College of Arts and Sciences at Penn? In what direction do you wish to pursue your further intellectual development? It is important for you to consider these questions at the beginning of your time here and to refine your answers at regular intervals thereafter. Before you can choose a set of courses that are right for you, you must consider the broader question of what you hope to achieve in your time as an undergraduate.

Setting an academic goal means determining the combination of intellectual abilities, knowledge and mastery of methods that makes the most sense for you as an educated adult. Academic goals should be carefully differentiated from career goals—though they may well complement each other, they are pursued for different reasons. Your intellectual development is a process that will continue throughout your life. Indeed, its purpose is to help you live your life to the fullest and to make the most of your abilities. Academic goals ultimately must be seen as preparing you in a broader way than for one particular job or profession.

However you determine your priorities, remember that what you do now lays the foundation for an education that will long outlast your time in the College. Academic advisors are always available in 120 Logan Hall to aid you in this exploration.

Janet A. Tighe

Janet Tighe

Dean of Freshmen
and Director of Academic Advising

Academic Integrity

Academic integrity is the core value of a university. It is only through the honest production and criticism of scholarship that one becomes educated and creates knowledge. Admission to Penn signifies entry into a community of scholars and a willingness to abide by its rules.

As an academic community, the fundamental purpose of a university is the pursuit of knowledge. Essential to the success of this educational mission is a commitment to the principles of academic integrity. Academic work represents not only what we have learned about a subject but also how we have learned it. Values and beliefs about academic integrity have been adopted by students so that others may trace our honorable footsteps, verify what we have learned and build upon our work. Every member of the university community is responsible for upholding the highest standards of honesty at all times.

Students, as members of the community, are also responsible for adhering to the principles and spirit of the Code of Academic Integrity. Penn believes strongly in the importance of academic integrity. Students who violate its precepts are subject to punishment through the judicial system. Ignorance of the rules is no excuse; if a student is unsure whether his or her action(s) constitute a violation of the Code of Academic Integrity, it is that student's responsibility to consult with the instructor to clarify any ambiguity.

The best strategy for maintaining academic integrity is to avoid situations where academic dishonesty might occur:

- When in doubt, cite. There are many publications, such as the *Chicago Manual of Style* or the *MLA Handbook for Writers of Research Papers* (which has been placed in Rosengarten Reserve by the Honor Council), that provide information about methods of proper citation. Failure to acknowledge sources is plagiarism, regardless of intention.
- Consult with instructors about assignments.
- Plan ahead—leave time to complete work.
- If you have trouble managing your time, contact the Weingarten Learning Resources Center and meet with a learning instructor to talk about strategies for getting work done.



Dr. Janet Tighe
Dean of Freshmen
Director of Academic Advising

For the complete Code of Academic Integrity see www.vpul.upenn.edu/osl/acadint.html.

For more on the Office of Student Conduct see www.upenn.edu/osc/.

THE MISSION OF THE COLLEGE

From its central position in an international research university, the College of Arts and Sciences invites students to explore the broad spectrum of human knowledge and takes pride in its capacity to respond to the particular intellectual needs of those who join it. The College thrives on the diversity of scholars and students whose interests it sustains and whose intellectual goals it unites.

The College is committed to offering a broad education that will lay a durable foundation for critical and creative thinking. The College's goal is to help students to become knowledgeable about the world and the complexities of today's society, aware of moral, ethical and social issues, prepared to exercise intellectual leadership, and enlivened by the use of their minds. We believe that students should explore fundamental approaches to the acquisition and interpretation of knowledge through introduction to substantive bodies of current thought in the natural sciences, social sciences and humanities. Equally important, they should learn to understand and evaluate the sources and methods from which this knowledge derives. In this way they can be led to appreciate the contingency of all knowledge and to participate in the ongoing excitement of intellectual discovery that is at the heart of the College.

We challenge our students to develop the skills of analysis and communication that will enable them to perceive pattern in complexity, render reasoned judgments, make wise choices under conditions of uncertainty and join with others in the pursuit of common endeavors. They should, for example, be able to write and speak effectively as well as to analyze quantitative data and to use another people's language as one means of access to the diversity of contemporary and historical culture.

A student's emerging interests and talents find expression through an organized program of study in a major field. In the specialized context of the major, students investigate the traditions and contemporary status of an established branch of knowledge. The structured study of a discipline complements the general exploration of our intellectual heritage to provide the balance of educational breadth and depth to which the College is committed. Study of the arts and sciences provides a solid basis for advanced scientific and scholarly research, for subsequent training in the professions and for the informed exercise of the rights and responsibilities of citizenship.

There is no single or easy path to the benefits of liberal education. A program of study must be shaped as a student grows. But the special strengths of the University of Pennsylvania—its combination of academic and professional excellence, its diverse and interdisciplinary tradition, its active community of scholars at all levels of experience—provide a setting in which the College can dedicate itself to nurturing honest, eager and critical minds. In the tradition of its 18th-century founders, the College of Arts and Sciences regards the enduring purpose of education as the liberation of the mind from ignorance, superstition and prejudice. Therefore, the College welcomes those who seek to understand, appreciate and contribute to the achievements of the human intellect.

THE ACADEMIC PROGRAM

DEGREE REQUIREMENTS

www.college.upenn.edu/curriculum/2010/

Overview

In the best tradition of a liberal arts education, the College's curriculum is designed to lead students through a structured process of decision-making and study toward two distinctive, but integrated goals: a broad, general knowledge across the arts and sciences and the deeper, more focused study of the major. Together, these components enable students to become familiar with the domains of knowledge and modes of inquiry that constitute the arts and sciences in a leading research university.

Ideally, the graduate of Penn's College of Arts and Sciences will be:

- Well informed about the world and at home in today's complex technological society.
- Willing and able to make critical judgments and to exercise intellectual leadership.
- Prepared for positions of leadership in or continued studies toward specialized professions, for specialized scientific and scholarly research, for the informed exercise of the rights and responsibilities of citizenship and for fulfilling and productive life in the 21st century.

To reach these goals, students will need to make thoughtful, informed and creative choices about their academic program within the context of the guidelines of the curriculum's requirements. Students are advised to consider:

- How to best explore the College's wide range of subjects and disciplines in order to identify which field will become their major.
- Which fields to explore in order to broaden their intellectual experience and knowledge of the world.
- How the study of a foreign language will help them understand the fabric of a different culture.
- How to hone their communication skills through writing and public speaking opportunities.
- How to develop a sophisticated understanding of quantitative information.

The College degree requirements are as follows:

General Education Curriculum

Foundational Approaches

Writing
Foreign Language
Quantitative Data Analysis
Formal Reasoning and Analysis
Cross-Cultural Analysis

Sector Requirement

Society
History and Tradition
Arts and Letters
Humanities and Social Science
The Living World
The Physical World
Natural Science and Mathematics

Free Electives

The Major

The General Education Curriculum

The College's General Education Curriculum has two broad objectives: to educate students in general skills and approaches to knowledge, and to engage them in the intellectual work of disciplines across the arts and sciences.

The General Education Curriculum requirements correspond to these two objectives. Foundational Approaches deal with general skills while the Sector Requirement presents specific areas of knowledge. Within any given course, these two—an approach and a field of study—are integral to one another. An approach is learned by practice in relation to a field of knowledge.

Foundational Approaches

Writing Requirement

Writing plays a central role within the College curriculum. As the medium within which scholars create knowledge and communicate their findings to others, it literally constitutes their ideas. A considerable portion of a student's intellectual work at Penn, therefore, will be written work, and this writing will often be the primary medium through which the quality of the student's thinking and ideas will be judged.

Students in the Class of 2011 follow the curriculum for the Class of 2010 and later.

For policies governing the Degree Requirements, see pages 53-55.

For courses meeting College requirements, see the database at <http://fusion.sas.upenn.edu/col/genreq/index.php>.

Students with a documented disability may petition to fulfill the Foreign Language Requirement with an alternate set of courses. See page 54.

Good writing instruction will equip students to write within the University and across a range of academic disciplines. Ideally, writing will become a foundation of their professional and personal lives outside of the University, a means of providing clarity and of challenging others to see beyond themselves.

Foreign Language Requirement

While students often opt to satisfy the Foreign Language Requirement by continuing to study the language that they have already begun in high school or earlier, the wealth of languages that the University offers is such that many students decide to explore a new culture and area of our globe by beginning a foreign language that they have never studied before. French, Spanish and sometimes German are taught at the pre-collegiate level, but students are less likely to have been exposed to Arabic, Chinese and Japanese—let alone Uzbek or Hausa—and each of these languages is a mode of access to a fascinating culture and history.

Penn is immensely proud of its language programs, the variety that they offer and the results that students achieve in them. The Foreign Language Requirement should be considered as a clear expression of the University's realization that effective modes of communication will be increasingly important in the 21st century. See page 10 for more on language study.

Quantitative Data Analysis Requirement

In contemporary society, citizenship, work and personal decision-making all require sophisticated thinking about quantitative evidence.

Students in the College must complete a course that uses mathematical or statistical analysis of quantitative data as an important method for understanding another subject. Through such study, students learn to think critically about quantitative data and the inferences that can be drawn from these data. They also gain experience with the use of quantitative analysis to interpret empirical data and to test hypotheses.

Courses in calculus and computer science do not fulfill the requirement because these courses do not require students to analyze actual data sets with the goal of evaluating hypotheses or interpreting results. To count toward the Quantitative Data Analysis Requirement, a course must include such data analysis. See <http://fusion.sas.upenn.edu/coll/genreq/index.php> for listings.

Formal Reasoning and Analysis Requirement

In contrast to Quantitative Data Analysis courses, which deal with inductive reasoning, courses designated for this requirement focus on deductive reasoning and the formal structure of human thought, including its linguistic, logical and mathematical constituents. These courses emphasize mathematical and logical thinking and reasoning about formal structures and their application to the investigation of real-world phenomena. In addition to courses in mathematics, this requirement includes courses in computer science, formal linguistics, symbolic logic and decision theory.

Cross-Cultural Analysis Requirement

In our increasingly interconnected world, the Cross-Cultural Analysis Requirement aims to increase students' knowledge and understanding of socio-cultural systems outside the United States.

College students are required to take at least one course to develop their ability to understand and interpret the cultures of peoples with histories different from their own. The focus may be on the past or the present and it should expose students to distinctive sets of values, attitudes and methods of organizing experience that may not be obtained from American cultures. This exposure to the internal dynamic of another society should lead students to understand the values and practices that define their own cultural framework.

The Sector Requirement

The seven courses taken to fulfill the Sector Requirement are intended to ensure breadth of education across a broad range of fields of knowledge, along with interdisciplinary explorations that link diverse fields.

I Society

Courses in this sector use many analytical techniques that have been developed to study contemporary society, with its complex relations between individuals and larger forms of mass participation.

II History and Tradition

This sector focuses on studies of continuity and change in human thought, belief and action.

III Arts and Letters

This sector encompasses the means and meaning of visual arts, literature and music, together with the criticism surrounding them.

IV Humanities and Social Sciences

This sector comprises courses that combine methods and approaches at work in at least two of the first three sectors.

V The Living World

This sector deals substantively with the evolution, development, structure and/or function of living systems.

VI The Physical World

This sector focuses on the methodology and concepts of physical science.

VII Natural Science and Mathematics

Students should engage with the diverse approaches to the natural sciences and mathematics more deeply than a single course from the physical and life sciences would allow. Greater depth of experience can be accomplished by either greater focus on one area, study in a related area, bringing various scientific perspectives to bear upon a single issue or topic, or engaging directly in academically-based activities informed by these perspectives.

Free Electives

Free Electives provide students with the freedom to explore new fields of knowledge, to take additional work in the field of their special interests, or to study further with a particular instructor. Above all, they provide the breadth associated with a liberal education, just as the major program provides depth in a particular discipline.

The Major

The major provides an opportunity for students to explore a segment of human knowledge deeply, with a sufficient grasp of its modes of thinking and analysis to add their own contributions.

ACADEMIC OPTIONS

www.college.upenn.edu/options/

Research

www.college.upenn.edu/research/

One of the major advantages of being an undergraduate at a research university is the wide variety of opportunities available for scholarship. The value of research lies in a student's participation in the process, in the work itself, as much as the product. Through engagement in this process students learn how to formulate a question or hypothesis, how to gather evidence, and how to answer that question or test that hypothesis: such a process is as intrinsic to a creative work as it is to a scientific experiment. Even when such efforts go wrong and students cannot answer their questions, in that process they will still learn something that no one can tell them: how new knowledge is created.

Research in the College encompasses a wide range of activities. In some disciplines, such as English, philosophy and history, students read original works, or the primary literature, and look for new connections and interpretations of these writings. In areas such as anthropology or history of art, students study artifacts, works of art or ancient languages, gaining insights on earlier civilizations and the lives of those who contributed to them. Some students do research in biology, chemistry or psychology, seeking insights on genetic coding, molecular structure or animal behaviors.

Students may receive college credit for research activities and scholarship, or receive work-study funds or stipends from faculty grants.

The Center for Undergraduate Research and Fellowships (see CURF, page 30) is an outstanding source of advice and information.

CUREJ Research Journal

<http://repository.upenn.edu/curej/>

The College Undergraduate Research Electronic Journal, CUREJ, includes examples of undergraduate research exploring a wide range of academic interests from the natural sciences through the social sciences and humanities, including music, painting and more.

College 99

www.college.upenn.edu/research/college99.php

College 99 is a course designation that permits a student in the College to undertake independent study with a faculty member of the

Students are strongly encouraged to look beyond the basics in selecting courses and meeting requirements. By taking advantage of the College's many academic options, students can create a truly interesting and enriching undergraduate program.

University outside of the School of Arts and Sciences. A student should consider applying for a College 99 only if his or her interests cannot be accommodated through regular or independent study within a department in the School of Arts and Sciences, and only after preparatory course work has been done.

Major Options

www.college.upenn.edu/majors/

In addition to the College's Major Requirement, students have the following options:

Double Major

Students who wish to double major may do so by applying for, and completing the requirements for, each major. Students interested in double majoring should consult with their pre-major advisor. For policies governing double majors see page 55.

Individualized Major

The individualized major offers an opportunity for exceptional, creative, self-motivated students to explore innovative and multidisciplinary fields of knowledge. See www.college.upenn.edu/majors/indiv.php for details.

Minors

www.college.upenn.edu/minors/

Although College students are not required to complete a minor, many choose to do so to bring an element of cohesiveness to their electives. Students choose to complete one or more minors to pursue secondary areas of interest, develop skills and a knowledge base that complements their major, express themselves in a creative area that is or will likely become an avocation or learn more about themselves and/or their heritage.

Minors such as those in foreign languages, mathematics and computer science may not only be pedagogically sound but also indicate a skill to a prospective employer.

Study Abroad

www.college.upenn.edu/abroad/

The College of Arts and Sciences believes that study abroad can be an important and enriching part of a liberal arts education. While engaging in international study, students develop a true understanding of international diversity through direct contact with and immersion in other cultures and by studying in other languages. Semester, summer and full-year Study Abroad Programs are available.

Foreign Language Study

www.college.upenn.edu/language/

Penn offers instruction in well over 50 languages, including Arabic, Bengali, Chinese, Dutch and so on. In addition to the language courses that are offered as part of the degree programs in various majors, the unique institution of the Penn Language Center allows the University to offer a wide variety of less commonly taught languages, as well as other language courses for special purposes.

Languages Offered by Departments and Programs

African Studies:

(Offered through the Penn Language Center and the African Studies Center) Amharic, Swahili, Twi, Yoruba, Zulu, and tutorials in various African languages (currently Igbo, Setswana, Shona, Wolof)

Classical Studies:

Classical and Medieval Latin, Ancient Greek and (offered through the Penn Language Center) Modern Greek

East Asian Languages and Civilizations:

Classical Chinese, Classical Japanese, Japanese, Korean, Mandarin and (offered through the Penn Language Center) Cantonese, Tagalog, Taiwanese, Thai and Vietnamese

Germanic Languages and Literatures:

Dutch, German, Yiddish and Swedish

Linguistics:

(Offered through the Penn Language Center) American Sign Language and Irish Gaelic

Near Eastern Languages and Civilizations:

Akkadian, Arabic, Avestan/Old Persian, Hittite, Modern and Biblical Hebrew, Sumerian, Syriac, Old Egyptian and (offered through the Penn Language Center) Persian and Turkish

Romance Languages:

French, Spanish, Italian, Portuguese and (offered through the Penn Language Center) Judeo-Spanish (Ladino)

Slavic Languages:

Russian and (offered through the Penn Language Center) Czech, Hungarian, Polish and Ukrainian

South Asia Studies:

Gujarati, Hindi, Sanskrit, Urdu and (offered through the Penn Language Center) Bengali, Kannada, Malayalam, Marathi, Panjabi, Pashto, Tamil and Telugu.

See pages 33 to 47 for a listing of major Departments and Programs, including courses recommended for freshmen.

Information on Study Abroad Programs is also available from the Office of International Programs, www.upenn.edu/oip/.

Penn Language Center

<http://ccat.sas.upenn.edu/plc/>

In addition to the language courses that are offered as part of the degree programs by various departments and programs, a wide variety of less commonly taught languages is available through the Penn Language Center.

Language Certificate

www.college.upenn.edu/language/certificate.php

Students have several choices to guide their study of a language other than English. In addition to completion of the College's Foreign Language Requirement, students may choose a major or minor in a language and literature department or program, or they may choose to pursue a language certificate. The language certificate is intended to provide an additional incentive for advanced language study for students who want to do some language study beyond proficiency but who cannot or do not want to fulfill the requirements of a major or minor.

Writing

<http://writing.upenn.edu/>

The Creative Writing Program

This program offers workshops in fiction, non-fiction, poetry, journalistic writing, screenwriting and playwriting. It also offers a Creative Writing minor, publishes a literary journal highlighting the work of students, faculty and eminent alumni writers, and provides qualified English majors the opportunity to earn honors in English by submitting a creative thesis. Throughout the year, the program invites visiting writers to Penn for readings and talks and sponsors a writing contest each spring.

The Kelly Writers House

This historic house on Penn's campus serves as a center for writers from Penn and the Philadelphia region at large. Each semester the Writers House hosts approximately 150 public programs and projects: poetry readings, film screenings, seminars, art exhibits and musical performances. Writers House also has a strong virtual presence through live interactive webcasts and dozens of listservs, web magazines and email discussion groups.

The Critical Writing Program

Penn undergraduates across all four schools fulfill their writing requirement through Critical Writing seminars and continue to advance

their scholarly and professional writing skills by enrolling in writing-intensive courses affiliated with the Critical Writing Program. Students receive additional writing support and feedback from peer and senior tutors in our Writing Center.

The Penn Writing Center

The Center offers friendly, expert writing help to Penn undergraduate and graduate students. Writing tutors are trained to help students write with greater skill and confidence.

Public Speaking

www.sas.upenn.edu/cwic/

Communication Within the Curriculum (CWIC) is Penn's speaking program. Its mission is to help students express themselves orally with clarity and confidence. CWIC provides a number of resources including regular office hours, course affiliations and free workshops.

The CWIC Speaking Center offers students access to trained peer speaking advisors. These advisors provide individualized coaching for students and groups working on presentations or seeking less formal speaking guidance. CWIC also offers non-credit workshops on speaking for students who would like instruction and a forum to practice.

CWIC also honors students with both strong research projects and superior speaking abilities by providing those students with a public forum in which to talk about their academic work. See the CWIC website for more on Emerging Scholars Talks and a speaking prize.

Community Service

www.upenn.edu/ccp/general/academically-based-community-service-3.html

Supported by the Center for Community Partnerships, Academically Based Community Service (ABCS) courses involve hands-on, real-world problem solving and work to build a sustained engagement that transforms students into active community members and citizens. Through their work with West Philadelphia public schools, communities of faith and community organizations, ABCS faculty and students work to solve critical community issues in a variety of areas, such as the environment, health, arts and education.

Quaker Consortium

www.college.upenn.edu/options/quaker.php

Penn students may enroll in courses at Bryn Mawr, Haverford or Swarthmore College during the fall and spring terms of the academic year. The four schools constitute the Quaker Consortium and have a reciprocal agreement for course credit and tuition, i.e., grades will appear on the student's Penn transcript, and no additional tuition will be charged.

Washington Semester

www.college.upenn.edu/options/washington.php

This program offers students an opportunity to learn from first-hand experience in the political and governmental process while taking courses taught by Penn faculty in the nation's capital.

Although designed primarily to fit the needs of social science majors, the program may be suitable for science and humanities majors with interest in public policy, politics and government.

Credit Away

www.college.upenn.edu/options/creditaway.php

Taking courses at another American university after matriculation into the College and transferring the credit back to Penn is called credit away. See page 61 for details.

Degree Options

In addition to meeting the standard degree requirements for the College of Arts and Sciences (page 7-9), students have several options.

Dual Degree

www.college.upenn.edu/degree/dual.php

Penn undergraduates have the opportunity to receive two Bachelor's degrees simultaneously by completing the requirements of the College along with those of the the Nursing School, the School of Engineering and Applied Science or the Wharton School.

A student pursuing the dual degree earns a B.A. from the College and a B.S. from Wharton or Nursing, or the B.S.E. or B.S.A. from Engineering.

Satisfying the requirements of both schools can require more than four years, depending upon A.P. credits and how many courses overlap both schools' requirements. See page 62 for additional policies.

Joint Degree

www.college.upenn.edu/degree/joint.php

The University offers a variety of specialized dual degree options between undergraduate schools that must be applied to at the time of application to the University (pre-matriculation). These are the joint degree programs and include the Huntsman Program in International Studies and Business, the Liberal Arts and Technology program and the Life Sciences Management program.

Submatriculation

www.college.upenn.edu/degree/submatric/

The submatriculation program allows students in the College to obtain both a baccalaureate degree and a master's degree simultaneously.

College students may submatriculate into many graduate programs, both in the School of Arts and Sciences and in other University schools. See page 63 for more on submatriculation.

Scholars Programs

University Scholars

www.upenn.edu/curff/scholars/scholars_us.htm

The University Scholars program provides an academic environment for intellectually dynamic students who have demonstrated their commitment to research. Through mentoring, research funding and scholarly events, the program supports and encourages students to take maximum advantage of their undergraduate years, not only with in-depth research, but also by making an early start in graduate and professional courses.

Students apply to the program from the end of their freshman year through the first semester of their junior year. Interested students should contact Dr. Harriet Joseph at hjoseph@pobox.upenn.edu.

Benjamin Franklin Scholars

www.upenn.edu/curff/scholars/scholars_bfs.htm

The Benjamin Franklin Scholars Program (BFS) is intended for students committed to performing at the highest level of intellectualism. Advisors encourage students to explore exciting research opportunities that emerge from participation in Benjamin Franklin seminars designed and taught by professors who are leaders in their fields. Scholars are strongly encouraged to continue their studies after their undergraduate careers, and many BFS students obtain prestigious grants for graduate scholarship.

Some students are selected for the BFS program at the time of application to the University. Selection is based on high school records, S.A.T. scores and other signs of serious academic interest. Intellectually ambitious students already on campus are also strongly encouraged to apply. Applications are accepted from the end of the first semester at Penn up to the end of the sophomore year. Juniors and seniors are not eligible to apply. Potential applicants are strongly encouraged to take a Benjamin Franklin seminar or another challenging seminar before applying.

Vagelos Scholars

www.sas.upenn.edu/biochem/vspmls.html

The Roy and Diana Vagelos Scholars Program in Molecular Life Sciences offers Penn's most motivated young scientists an opportunity to begin intensive course work and research in their first year. Vagelos Scholars major in chemistry or biochemistry and complete a second major in any other natural science, with the option of earning a concurrent master's degree. The program requires and funds summer research.

Students, especially those with more than three units of A.P. credit in math, physics and/or chemistry, should email biochemistry@sas.upenn.edu or call the Biochemistry Program office at 215.898.4771. Students enter the program in their first semester.

Vagelos Science Challenge Award

Each academic year, five Challenge Awards are given to rising junior or senior College students in the chemistry or physics submatriculation program. This award of full tuition and fees is intended to challenge College science students to get the most from Penn and themselves, both in the classroom and in the laboratory, and it is independent of financial need.

After Graduation

Careers and Liberal Arts

Students in the College of Arts and Sciences are advised to follow their true academic interests and explore fields that are new and interesting. The experiences of alumni from the College of Arts and Sciences demonstrate the variety of interesting academic paths that can lead to every career field. *Careers and a Liberal Education* highlights the perspectives and choices of College alumni in their undergraduate and professional careers. Students may request this booklet from the College Office or view it at www.college.upenn.edu/careers/liberaled.php.

Career Services helps Penn undergraduates and alumni define their career goals and take the steps necessary to achieve them by providing resources and services on career direction/assessment, employment and admission to graduate and professional schools through individual advising, career seminars, placement workshops, on-line job listings and alumni networks.

Graduate Studies

Humanities and Social Science

Students may explore an interest in humanities or social science research early in their careers by taking a freshman seminar or a Benjamin Franklin seminar. As they explore their majors, students should consider fields for potential graduate study, taking opportunities to enroll in research methods courses and seminars in those fields (even if they are not part of the student's major). They should also take advantage of the Undergraduate Research Directory (see CURF, page 30) and the many other resources for undergraduate research available through the College website.

Natural Science

Penn offers much to the student who wishes to study science at the highest levels. Those who wish to major in one of the natural sciences, should take courses in that discipline in their first semester. Students should speak with the undergraduate chair of the department that interests them as they plan their first year.

Students who successfully completed advanced work in science and math in high school may wish to take two science courses as well as math in their first semester. These students may request permission to take 5.5 c.u. from their pre-major advisor, or from a College advisor in Logan Hall. Students gifted in science should consider preparing for a Ph.D. program. It is extremely important to get as much advanced coursework and research experience as possible. Since the common language of science is math, and the common unit of study for most sciences has become the molecule, it is important to begin the study of math, chemistry and physics early in an undergraduate career.

Fellowships and Scholarships

Students interested in post-baccalaureate study should consider pursuing graduate fellowships and scholarships. The Center for Undergraduate Research and Fellowships (CURF) provides support and encouragement for students seeking such awards. They are also available to assist students investigating undergraduate or graduate research opportunities. See CURF, page 30.

For career suggestions tailored to College students see www.vpul.upenn.edu/careerservices/college/exploration.html.

For further information see the Career Services website, www.vpul.upenn.edu/careerservices/.

Medical Careers

www.college.upenn.edu/careers/health.php

Students need not major in one of the natural sciences to study medicine, dentistry or veterinary medicine. The basic math/science requirements for most medical schools to which Penn students apply include:

- One year of biology with lab (BIOL 101/102 or BIOL 121 if the student has BIOL 091 credit.) If a student has A.P. credit in biology (BIOL 091), see page 23. Students planning to go to medical school need to take a full year of biology (lecture and lab) during their college years. Those who receive placement credit for BIOL 101, 102 or 121 should consider taking a 200-level biology course after completing their introductory course work.
- One year of chemistry with lab (CHEM 101/102 or CHEM 001/102, plus labs). If a student has A.P. credit in chemistry (CHEM 091), see the A.P. chemistry chart on page 24.
- One year of physics with lab (PHYS 101/102 or PHYS 150/151); some majors require PHYS 150/151. If a student has A.P. credit in physics (PHYS 091, 092, 093 or 094), see the Physics website, www.physics.upenn.edu/home/academics/ugrad/undergrad.htm.
- One year of organic chemistry with lab (CHEM 241/242 and CHEM 245).
- One year of College mathematics (MATH 104 and a statistics course); some majors require MATH 104/114. A few medical schools still require a full year of calculus, but the vast majority will accept statistics and a semester of calculus.
- Two semesters of English or comparative literature courses. (Students may use writing seminars to satisfy this requirement.)

Career Services

See the Career Services website, www.vpul.upenn.edu/careerservices/, for a list of material intended to help students explore health-related career options, locate potential health-related employment and strengthen understanding of the health professions.

For Students Considering Medical School

A great resource with many links for students considering medical school including:

- *Alternatives to Medical School* provides resources on non-clinical options and transcripts of relevant panel discussions.
- *Key Resources: Medical, Health and Nursing* is a list of material available in the Career Services library intended to help students explore health-related career options, locate potential health-related employment and strengthen understanding of the health professions.

Law Careers

www.college.upenn.edu/careers/law.php

There is no pre-law major or required sequence of courses. Most law school admissions committees seek students with well-rounded liberal arts educations that focus on strong writing, research and verbal skills. Throughout their college careers, students should seek balance. Thus, if their major is in science or engineering, students should be sure to take some courses requiring the above skills. On the other hand, if their major is in the humanities, they should take some classes that have a quantitative or analytical focus, such as statistics, economics or mathematics.

To be competitive for law school admission, it is important to perform well in one's undergraduate coursework. It is recommended that students choose a major out of genuine interest rather than one they assume will facilitate their admission to law school. Strong candidates with all kinds of majors, from Physics to Hispanic Studies to Anthropology, are admitted into law schools.

Students are encouraged to speak further with pre-law counselors in the Career Services office. Students may also wish consider the B.A./J.D. submatriculation program. See www.college.upenn.edu/options/submatric/, for details.

ACADEMIC ADVISING

THE ADVISING SYSTEM

www.college.upenn.edu/advising/

College students need to choose courses, declare a major and define career goals. They will need to examine their performance in different courses, identify their skills and those they wish to develop and decide what really matters to them. Though students must take responsibility for these decisions, the College provides advisors to help with information and guidance.

Pre-major advisors help first- and second-year students navigate their entrance into academic and intellectual life in the College beginning with the issues of incoming freshmen and continuing through the student's exploration of a potential major.

After declaring a major, students are assigned a major advisor in their department or program.

CONFIDENTIALITY

In high school, students' grades and other records are considered their parents' property as much as their own. In college, students' academic and medical records are considered their own property. Penn's policy regarding student information is that students are adults, and the University generally will not share their academic and other records (apart from directory information) with third parties without their explicit consent. This is in accordance with the federal Family Educational Rights and Privacy Act. Though there are situations in which the University can choose to divulge information without a student's consent (for example, if they are listed as dependents on their parents' tax returns), for the most part, students must decide who has access to their academic record. They can indicate whether or not they wish their parents or others to see their educational records using the Privacy Settings screen on Penn InTouch.

As students begin their careers at Penn, it is very important for them to think carefully about their own responsibility and to have a discussion with their parents about these confidentiality rules. The College will expect students to be aware of their grades, course registration and all other aspects of their academic career. The Penn InTouch system provides 24-hour access to all of this information. The pre-major advisor is there to help students

make the most of their academic career, and the University provides a wide range of support services for both academic and non-academic concerns. Students are expected to familiarize themselves with these services and make use of them when appropriate.

STUDENT RESPONSIBILITY

Students must take responsibility for their share of the advising process by:

- Being active and informed participants in the advising process and taking responsibility for the shape of their education and life goals.
- Reading the publications sent to them from the College Office, especially this handbook, and using the information available on the College website, www.college.upenn.edu.
- Being aware of registration-related deadlines.
- Using Penn InTouch to make course and grading status changes and confirming the accuracy of their registration.
- Keeping appointments with pre-major advisors and coming to advising sessions prepared with questions and issues to discuss.
- Making appointments with, or sending email to, assistant deans for advising in the College Office if in need of advice beyond the expertise of their pre-major advisor.

PENN INTOUCH

<https://sentry.isc.upenn.edu/intouch/>

Penn InTouch is the on-line information system for Penn students. To use Penn InTouch, a PennKey and password are required (see page 2). Some of the ways in which Penn InTouch is used include:

Addresses: Local and permanent addresses.

Privacy Settings: Indicate to whom academic and/or financial information be disclosed.

Registration: See information on pages 26–28 for details about registration using Penn InTouch.

Student Schedule: View current or past course schedules, class locations and instructors.

Transcript: View course and grade information, g.p.a. and print unofficial transcript.

Academic Worksheet: See page 18 details.

While there are many people at Penn who can provide academic guidance, ultimately it is the student who must take responsibility for the decisions she or he makes.

Students must keep their contact information on Penn InTouch accurate and up to date. The University uses these addresses, as well as the Penn email account, to communicate critical information to students.

The College Office
120 Logan Hall, 249 South 36th St.
Philadelphia, PA 19104-6304
215.898.6341
college@sas.upenn.edu

For more on assistant deans including pictures, profiles, academic interests and advising specialties including specific study abroad programs, see www.college.upenn.edu/assistdeans.php.

THE COLLEGE OFFICE

The College Office is home base for undergraduate students in the School of Arts and Sciences, and its resources should be well known by all students. The Office provides support for all College academic advising including pre-major and peer advising, and oversees degree planning, graduation auditing and many advising-related programs. The College Office also maintains student records and generates correspondence such as dean's letters and verification of academic standing.

Assistant deans for advising in the College Office manage services for undergraduates with specialized advising needs such as study abroad, athletic schedules, dual degrees and weak academic backgrounds. They are also available to any College student who may wish to:

- Clarify the College's degree requirements, policies and procedures, particularly regarding special academic programs such as study abroad and dual degrees.
- Supplement pre-major advising if the student's assigned pre-major advisor becomes unavailable during the summer.
- Assist in locating resources on campus and help with academic difficulties.

Assistant deans for advising are available by appointment, Monday through Friday from 9:00 A.M. to 4:30 P.M. or on a walk-in basis for quick questions until 4:00 P.M. in the College Office, 120 Logan Hall, 215.898.6341.

Directors and Associate Directors of Academic Advising

Dr. Janet Tighe, jtighe@sas.upenn.edu:
Dean of Freshmen and Director of Academic Advising in the College

Dr. Diane D. Frey, dfrey@sas.upenn.edu:
Director of Academic Services, leave of absence, transfer students and tuition adjustment.

Dr. Alice Kelley, akelley@sas.upenn.edu:
Associate Director of Academic Advising, individualized majors, language substitution petitions, athletic eligibility

Dr. Niel McDowell, nm@sas.upenn.edu:
Associate Director of Academic Advising, College Academic Support Network (CaseNet)

Assistant Deans for Advising

Dr. Flora Cornfield, fcornfie@sas.upenn.edu:
study abroad

Ms. Janice Curington, jcuring@sas.upenn.edu:
outreach to underrepresented minorities, study abroad

Dr. Hocine Fetni, hfetni@sas.upenn.edu:
B.A./J.D. submatriculation program, graduation audits, study abroad

Dr. Srilata Gangulee, gangulee@sas.upenn.edu:
outreach to Asian and Asian-American students, study abroad programs, submatriculation

Dr. Tanya Jung, jungt@sas.upenn.edu:
Pilot Curriculum, study abroad

Dr. Wally Pansing, pansing@sas.upenn.edu:
College 99, Quaker Consortium, study abroad

Dr. Gary Purpura, gpurpura@sas.upenn.edu:
CaseNet, study abroad

Advising for Scholars Programs

Ms. Linda Wiedmann, Associate Director,
Benjamin Franklin Scholars Program
wiedmann@pobox.upenn.edu

Dr. Harriet Joseph, Associate Director of the
University Scholars Program, and Benjamin
Franklin Scholars Program.
hjoseph@pobox.upenn.edu

Assistant Directors

Ms. Kendal Barbee, krb93@sas.upenn.edu:
CaseNet, Family Weekend, advising-related programs

Ms. Katrina Glanzer, glanzer@sas.upenn.edu:
CaseNet, peer advising program, freshman seminars, pre-major advising-related programs

Ms. Ada Obrea, aobrea@sas.upenn.edu:
CaseNet, Help Desk, Major Advising Program (MAP), College graduation ceremony

CaseNet

In case of emergencies or academic trouble, students may contact the College Office, 215.898.6341, to speak with an assistant dean or with an on-call member of the College Academic Support Network (CaseNet).

Help Desk

The Help Desk is available on a walk-in basis for quick questions about academic regulations and procedures. Students may also ask questions by email, answers@college.sas.upenn.edu.

COLLEGE HOUSES

These undergraduate residences are a hub of intellectual, social and recreational activity. Each House has a resident faculty master who sets the general academic agenda, with the help of two faculty fellows who also live in the House. A house dean heads up the administrative functions and supervises its programs. As advisors in the College of Arts and Science, house deans are available to provide curricular advice to freshman and sophomore students. Students are encouraged to speak to their house dean as soon as they can about programs available in their College House.

Check the College website, www.college.upenn.edu/advising/housedeans.php, for an updated list of College House Deans.

W.E.B. Du Bois College House
215.898.3677
Faculty Master: Rev. William Gipson,
University Chaplain
House Dean: Patricia Williams
pcw2@pobox.upenn.edu

Rodin College House
215.573.3576
Faculty Master: Prof. Jay Reise,
Music
House Dean: Kenneth Grcich
grcich@pobox.upenn.edu

Harrison College House
215.573.3539
Faculty Master: Prof. Lawrence Sipe,
Graduate School of Education
House Dean: Dr. Frank Pellicone
frankpel@pobox.upenn.edu

Riepe College House
215.898.2855
Faculty Master: Prof. Ann Farnsworth-Alvear,
History
House Dean: Dr. Marilynne Diggs-Thompson
diggst@pobox.upenn.edu

Fisher Hassenfeld College House
215.573.4295
Faculty Master: Prof. J. Sanford Schwartz,
The Wharton School
and the School of Medicine
House Dean: TBD

Harnwell College House
215.573.3497
Faculty Master: Prof. Daniel Bogen,
Bioengineering
House Dean: Dr. Suhne Ahn
suhnnea@pobox.upenn.edu

Hill College House
215.898.5237
Faculty Master: Prof. Julie Sochalski,
School of Nursing
House Dean: Stephanie Weaver

Stouffer College House
215.573.8473
Faculty Master: Prof. Philip Nichols,
Legal Studies
House Dean: Michele Grab
mgrab@pobox.upenn.edu

Gregory College House
215.573.4633
Faculty Master: TBD
House Dean: Dr. Christopher Donovan
cdonovan@pobox.upenn.edu

Ware College House
215.898.9531
Faculty Master: Prof. Mark Liberman,
Linguistics
House Dean: Dr. Nathan Smith
nws@pobox.upenn.edu

Kings Court / English College House
215.898.2530
Faculty Master: Prof. Jorge Santiago Aviles,
Electrical and Systems Engineering
House Dean: Dr. Krime Bokreta
bokreta@pobox.upenn.edu

Peer advisors are available to help incoming students use this tool.

Penn InTouch
<https://sentry.iscupenn.edu/intouch/>

Students use their PennKey and password to log into Penn InTouch.

See www.upenn.edu/computing/pennkey/ for information about setting-up a PennKey.

ACADEMIC WORKSHEET

One of the many features available through Penn InTouch is an academic planning worksheet that helps students select interesting academic options and track their progress toward completion of their degree requirements. Freshmen should explore this tool with the assistance of their peer advisor after Advance Registration. It is important to note that the worksheet is not the final certification for requirement satisfaction, major certification or graduation.

To create a new worksheet, students should:

- Log in to Penn InTouch
- Select WORKSHEET from the menu
- Click on NEW WORKSHEET
- Select "College of Arts and Sciences, Bachelor of Arts" degree program
- Select "Requirements for the Class of 2010 and later"
- Select CREATE
- Click on OPEN to view the worksheet.

First-semester freshmen will find two categories of courses on the right-hand side of the worksheet: those in which they are currently

enrolled, and those for which they have various types of advanced standing credit. (Many of these may not be immediately applicable on the worksheet.) Once the first semester has been completed, a third category will appear: completed courses.

Students should consider the following:

- After registration, students may use AUTO ASSIGN to allow the system to allocate courses where it can. (Courses may not fall where expected. An academic advisor can help.)
- The PLAN function can help students explore academic options by allowing the creation of "what if" scenarios in degree planning. The *Course Register* and links to requirement courses at www.college.upenn.edu/curriculum/2010/ can help students with this planning process.
- A prospective major may be added to the worksheet in order to view that major's requirements. The question mark at the head of each major requirement is a link to the department or program website containing details about the program, faculty and courses.

The worksheet also helps students and their advisors create a rich and challenging academic experience rather than simply selecting courses and meeting requirements.

The worksheet will need to be updated as choices about the major are made.

Penn InTouch Unofficial Worksheet for

Requirements for BACHELOR OF ARTS

☐ not filled
 ☒ approved
 ☐ approved by exception
 ☐ approved by petition
 ☐ pending approval
 ☐ waived
 ☐ NOT approved
 ☐ course double counted

College General Education Requirements
 For the Class of 2010 and Later

THIS WORKSHEET IS AN AID FOR PLANNING. IT IS NOT THE FINAL CERTIFICATION FOR REQUIREMENT SATISFACTION, MAJOR CERTIFICATION, OR GRADUATION.

FOUNDATIONAL APPROACHES
 A course that fulfills a Quantitative Data Analysis, Formal Reasoning, or Cross-Cultural Analysis requirement may also be counted toward a Sector requirement.

The Writing Requirement
 Writing Seminar or ENGL 125

Foreign Language
 Satisfied by Exemption?
 Language: Not Satisfied by Exemption
 OR
 Satisfied by Course?
 Official Course

Formal Reasoning
 Formal Reasoning
 Quantitative Data Analysis
 Quantitative Data Analysis
 Cross Cultural Analysis
 Cross Cultural Analysis

SECTORS
 Beware of Plus Signs in the Sectors
 You may count no more than one course toward both a Major and a Sector requirement.
 For Exceptions, check...
<http://www.college.upenn.edu/rules/2010.html#b>

Take one course from each sector.
 OI. Society
 OII. History & Tradition
 OIII. Arts & Letters
 OIV. Interdisciplinary Humanities & Social Science
 OVI. Living World
 OVII. Physical World
 OVIII. Interdisciplinary Natural Sci & Mathematics
 OR you may take a second course from either the Living World or Physical World Sector.

FREE ELECTIVES
 Electives will be "not approved" when slotted. Advisors will over-ride once a course has been approved. Free-electives are any courses taken that are not included under any other requirements. However, free-electives can be used to fulfill the requirements for a Minor.

☐ Elective 1
☐ Elective 2
☐ Elective 3
☐ Elective 4
☐ Elective 5
☐ Elective 6
☐ Elective 7
☐ Elective 8
☐ Elective 9
☐ Elective 10
☐ Elective 11
☐ Elective 12
☐ Elective 13
☐ Elective 14
☐ Elective 15
☐ Elective 16

Non-College Electives
☐ Non-College Elective 1
☐ Non-College Elective 2
☐ Non-College Elective 3
☐ Non-College Elective 4

Additional Non-College Electives for Dual Degree
☐ Additional Non-College Elective 1
☐ Additional Non-College Elective 2

Certifications
☐ Division Requirements complete
☐ All Degree Requirements complete

MAJOR REQUIREMENT NOTE
 You may count no more than one course toward both a Major and a Sector requirement.

Courses
 Used courses as highlighted

☒ MECH 005 A
☒ ASTR 007 A
☒ BIOL 140 A
☒ CHEM 005 A
☒ CHEM 101 A
☒ COML 126 A
☒ ECOW 001 B
☒ ECOW 002 B
☒ ECOW 050 A
☒ ECOW 150 A
☒ ENGL 099 A
☒ HIST 002 B+
☒ HIST 102 A
☒ HIST 160 A
☒ HIST 201 A
☒ HIST 202 B
☒ HIST 206 A
☒ HIST 210 A
☒ HIST 221 A
☒ HIST 295 A
☒ HIST 420 A
☒ HIST 402 A
☒ HATH 140 B
☒ HATH 141 A
☒ PSYC 116 F
☒ PSYC 150 B
☒ PSYC 255 A
☒ SOC1 005 A
☒ SPAN 110 A
☒ SPAN 120 A
☒ SPAN 140 A
☒ Currently Enrolled
☒ ARTH 003
☒ PSYC 098
☒ AP Credit
☒ PHYS 101
☒ CHEM 001

SECTOR Requirement Fulfilled

☐ None Satisfies or Term
☐ Main Menu
☐ Worksheet Menu
☐ Details & GPA Calculator
☐ Show GPA / Credits
☐ Worksheet Comments

ACTION: Satisfy (req-Society course 1 (general requirement course))

Auto Assign MECH 005 A

View by Requirement View by Term

Go

Courses for which a student has credit, or in which the student is currently enrolled, appear here.

Once a major and/or minor is selected, the requirements for that major will appear in this area. Students may then assign courses to their major or minor requirements the same way they did for the degree requirements. (It is not necessary to have declared a major to explore it in this way.)

Select AUTO ASSIGN to have the system allocate courses to the appropriate requirement.

THE FIRST SEMESTER

ADVISING FOR INCOMING STUDENTS

www.college.upenn.edu/advising/

Pre-Major Advising

Each student is assigned a pre-major advisor who is a member of either the School of Arts and Sciences faculty or the professional staff. Incoming freshmen will consult with their pre-major advisor about their academic plans and goals during the summer. This advisor will also work with the student throughout his or her first two years at Penn to assist in planning courses each semester and in planning the over-all program.

Students are encouraged to develop a good working relationship with their pre-major advisor and to seek this person's counsel as often as necessary, not limiting themselves to the required registration meeting.

The primary goals of pre-major advising are for students to:

- Discuss, with their academic advisor, their intellectual interests and academic goals prior to registration for their first semester.
- Have the opportunity to develop a relationship with at least one adult representative of the University, with whom they can discuss their academic plans, and with whose help they can develop a coherent curriculum to accomplish their goals. Students can also refer to this advisor for clarification of the University's policies, procedures and degree requirements.
- Successfully make the transition from secondary school to college.
- Become familiar with the course offerings and other academic opportunities within the College and other schools at Penn and make good use of them.
- Prepare to declare a major and know how they wish to structure the rest of their undergraduate program by the second semester of their sophomore year.
- Follow up on the initial contacts with support and counseling services made by their advisors and continue to avail themselves of these resources when necessary.
- Increase their level of self-awareness and grow intellectually as they explore the curricular and extracurricular offerings at Penn and in Philadelphia.
- Learn to take responsibility for their actions (or inactions) and decisions.

Peer Advisors

Peer advisors are an integral part of the College's pre-major advising program and the first point of contact for incoming College students. They provide the perspective of an upperclass student in the College and assist first-year students in making the transition from high school to Penn by sharing their strategies for survival and knowledge of campus.

Peer advisors contact their advisees during the freshman Advance Registration period in the summer and remain accessible to the freshmen by email and/or phone throughout the rest of the summer. During New Student Orientation peer advisors introduce the freshmen in their group to their pre-major advisor.

The peer advisors are recruited from amongst the College upperclass student body, trained by the College Office and supervised by a peer manager. The peer advising system is coordinated by Katrina Glanzer in the College Office.

Peer advisors are available to help first-year students:

- Advance Registration in the summer and in November and March.
- Use of Penn InTouch, including creating a worksheet at the appropriate time.
- Schedule appointments with the pre-major advisor during Advance Registration.
- Find the answers to questions in College and University publications.
- Find answers to questions about degree requirements, academic support services and University procedures throughout the first year.
- Find information about opportunities for research and academic pursuits outside of the classroom.

See pages 53-56 for additional policies governing A.P. credit and College requirements.

Office of Transfer Credit and
Advanced Placement

xfer@admissions.upenn.edu
215.898.6080

Students must show their original A-Level certificates to the Office of Transfer Credit and Advanced Placement to have their scores evaluated for credit. For exams not listed here, and those which specify "departmental review," students will be sent to the relevant department for evaluation.

ADVANCED PLACEMENT

www.college.upenn.edu/freshmen/ap.php

The University recognizes that many incoming students have participated in special programs of study that may earn them college credit or placement. It is the student's responsibility to understand the policies governing the award of credit.

Students who have already received some Advanced Placement scores can refer to the charts below and on pages 21-22 to determine what Penn credit will be awarded. Students who do not have the ETS scores before having to register for classes should estimate their scores and choose courses accordingly. Changes can be made when the scores are available.

After arriving at Penn, students should check their transcript using Penn InTouch. If expected A.P. or I.B. credit does not appear, they should contact the Office of Transfer Credit and Advanced Placement, and ask if Penn received A.P. or I.B. scores.

It is wise for students to bring their student copy of any Advanced Placement credit or scores with them to campus.

International Exams

A detailed policy statement governing credit equivalence is available from the Office of Transfer Credit and Advanced Placement. Credit is also awarded for the following on a case-by-case basis:

- G.C.E. A-Level Examinations
- International Baccalaureate (I.B.)
- French Baccalauréat
- German Abitur
- Swiss Maturité
- Canada's CEGEP Program (2nd year only)
- Italian Maturità
- Denmark's Studentereksamen
- Finland's Matriculation Examination.

Credit cannot be granted until Penn is in receipt of official exam results and official certified translations.

Pre-College Credit

For policies governing credit for college courses taken before matriculation at Penn, see Policies Governing the Curriculum and Requirements beginning on page 53.

G.C.E. Advanced A-Level Exams

EXAMINATIONS	GRADE OF A OR B	GRADE OF C
Accounting	No credit	No credit
Biology*	BIOL 091 (1 c.u.)	No credit
Chemistry *	CHEM 091 (1 c.u.)	No credit
Economics	A=Waiver for ECON 001, 002 (no credit) B=No credit	No credit
English	Departmental review	Dept. review
History	A=Choice of HIST 041, 042 or 044 (2 c.u. limit) B=No credit	No credit
Math		
w/Further Math (Edexcel)*	A=MATH 104 B=No credit	No credit
Math w/Special paper		
w/merit (Cambridge)	A=MATH 104 B=No credit	No credit
Physics	A=PHYS 093, 094, 050, 051 (Total 3 c.u.) B=PHYS 091, 092, 011, 012 (Total 3 c.u.)	PHYS 091

* An internal departmental examination is also available for credit.

Advanced Placement Equivalence

EXAMINATIONS	SCORE	EQUIVALENT
Art History	5	Waivers (no credit) for ARTH 001 or ARTH 002 (consult with undergraduate chair)
Art (studio)	5	No credit (placement considered based on portfolio review)
Biology *	5	BIOL 091 (1 c.u., no A.P. credit given for labs)
Chemistry *	5	CHEM 091 (1 c.u., no A.P. credit given for labs)
Computer Science-AB	5, 4	CSE 110 (1 c.u., credit given for the AB or A exam, but not both)
Computer Science-A	5	CSE 110 (1 c.u., credit given for the AB or A exam, but not both)
Economics (Micro)	5	Waiver for ECON 001 (no credit)
Economics (Macro)	5	Waiver for ECON 002 (no credit)
English Lang./Comp.	5	English Free (1 c.u., does not fulfill the Major or Writing Req.)
English Lit./Comp.	5	English Free (1 c.u., does not fulfill the Major or Writing Req.)
Environmental Science	5	ENVS 200 (1 c.u. non-majors only, majors must see department)
European History	5	HIST 041 (1 c.u.)
French Language	5	FREN 210 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
French Literature	5	FREN 220 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
German Language	5	GRMN 104 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Italian Language	5	ITAL 210 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Latin - Literature	5	Latin Free (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Latin - Vergil	5	Latin Free (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Mathematics-AB	-	No credit
Mathematics-BC *	5	MATH 104 (1 c.u.)
Physics-B	5	PHYS 091, 092 (2 c.u.) **
Physics-C (Mechanics)	5	PHYS 093 (1 c.u.)**
Physics-C (Elect. & Mag.)	5	PHYS 094 (1 c.u.)**
Psychology	5	Waiver for PSYC 001 (no credit)
Spanish Language	5	SPAN 210 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Spanish Literature	5	SPAN 220 (1 c.u., fulfills the Foreign Language Requirement)
	4	No credit (fulfills the Foreign Language Requirement)
Statistics	5	STAT 111 (1 c.u.)
United States History	5	HIST 042 (1 c.u.)
World History	5	HIST 044 (1 c.u.)

* An internal departmental examination is also available for credit.

** See www.physics.upenn.edu/ for details.

The subjects and scores listed below receive the equivalencies indicated. These policies are in effect for students entering Penn during the 2007-08 academic year. All policies remain under ongoing review and are subject to change without prior notice.

All scores of 4 to 1 receive no credit or equivalency unless otherwise indicated.

If an A.P. exam is not listed here, Penn does not grant credit for it.

For the most up-to-date listings see www.admissionsug.upenn.edu/applying/advanced.php.

Credit is awarded for superior performance on the International Baccalaureate Higher Level exams. These policies are in effect for students entering Penn during the 2007-08 academic year. In several instances evaluations have changed from previous years. All of these policies remain under ongoing review and are subject to change without prior notice.

Scores of 4 to 1 receive no credit unless otherwise indicated.

For the most up-to-date listings see www.admissionsug.upenn.edu/applying/baccalaureate.php.

International Baccalaureate Policy

EXAMINATIONS	SCORE	EQUIVALENT
Anthropology	-	No credit
Biology*	7, 6	BIOL 091 (1 c.u., does not fulfill the laboratory requirement)
Chemistry*	7, 6	CHEM 091 (1 c.u., does not fulfill the laboratory requirement)
Economics	7, 6	Waiver for ECON 001, 002 (no credit)
English A/B	7, 6, 5	English Free (1 c.u., does not fulfill the Major or Writing Requirement)
French A**	7, 6	FREN 210, 220 (2 c.u.)
	5	FREN 210 (1 c.u.)
	4	FREN 140 (1 c.u.)
French B**	7, 6	FREN 202, 210 (2 c.u.)
	5	FREN 140 (1 c.u.)
Geography	7, 6	Geology Free (2 c.u.)
	5	Geology Free (1 c.u.)
German A**	7, 6	GRMN 216, German Free (2 c.u.)
	5, 4	GRMN 212 (1 c.u.)
German B**	7, 6	GRMN 216, German Free (2 c.u.)
	5, 4	GRMN 104 (1 c.u.)
History of the Americas	7, 6, 5	HIST 042 (1 c.u.)
History of Europe	7, 6, 5	HIST 041 (1 c.u.)
Latin**	7	Latin Free (1 c.u.)
	6	No credit (fulfills the Foreign Language Requirement)
Mathematics	-	No credit
Math with Further Math*	7	MATH 104 (1 c.u.)
Music	-	No credit
Philosophy	7, 6	Departmental review on case-by-case basis
Physics*	7, 6	Placement exam required for PHYS 093, 094 credit (2 c.u.)
Psychology	7, 6	Waiver for PSYC 001 (no credit)
Spanish A**	7, 6	SPAN 210, 220 (2 c.u.)
	5	SPAN 210 (1 c.u.)
	4	SPAN 140 (1 c.u.)
Spanish B**	7, 6	SPAN 202, 210 (2 c.u.)
	5	SPAN 140 (1 c.u.)
Theatre Arts	7, 6, 5	Departmental review on case-by-case basis

* An internal departmental examination is also available for credit.

** All language credits fulfill the Foreign Language Requirement.

All other Higher Level International Baccalaureate examinations will be reviewed on an individual basis. For more detailed information regarding the University's International Baccalaureate policies, please contact the Office of Transfer Credit and Advanced Placement.

A.P. Physics

Students who wish to receive credit for prior lab experience must submit their lab reports and lab manual to the undergraduate chair.

Students who do so should recognize that most high school physics courses and many courses offered at other universities do not provide a laboratory experience equivalent to that offered by a Penn course. In general, the evaluation of laboratory work performed at another institution will be based on the number of experiments performed, the perceived difficulty of each experiment, the level of analysis required (including graphical presentation of data and error analysis), and the choice and spread of topics. Students with A.P. credit who need to satisfy the lab requirements will be allowed to register for PHYS 011, 012, 050 or 051 to receive lab credit. Students may receive credit based on their performance on the A-level, International Baccalaureate or other centrally administered examinations; such students should consult the department or the Office of Transfer Credit and Advanced Placement for details. Credit will be granted to students who achieve a score of 5 on the appropriate Advanced Placement exam.

Note: A student who takes PHYS 101/102, 150/151 or 170/171 at Penn will lose the physics A.P. credit.

A.P. Math

Students are strongly encouraged to master the basic material as early as possible and can be awarded credit for introductory calculus in the following ways:

- Earning a score of 5 on the Advanced Placement calculus BC exam, giving them a credit for MATH 104. Lower scores on the BC exam receive no course credit. No credit is given for the AB exam regardless of score. Students taking first semester calculus, MATH 104, are expected to have completed successfully an AB Calculus course or the equivalent. It is strongly recommended that those who have not had a calculus course at the level of AB calculus or who received a score of 3 or lower on the AB exam should take MATH 103 to prepare them for MATH 104.
- Submitting the results of their performance on the A-level Examination (through Pure Mathematics 6; any lesser examination will receive no credit) with a grade of A or International Baccalaureate (Mathematics [Higher Level] plus Further Mathematics) with a score of 7. Students with these scores will receive credit for MATH 104 (1 c.u.);

other students submitting results from either the A-Levels or I.B. exams should consult the department or the Office of Transfer Credit and Advanced Placement or take the internal A.P. exam described in the next paragraph.

- Passing the internal Advanced Placement Examination administered in the fall by the Mathematics Department. A student may take the examination regardless of whether he or she took the external exam described under the first or second items above. Information on this exam can be found on the New Student Orientation website, www.upenn.edu/nsol.

A.P. Biology

Advanced placement credit in biology can be obtained by earning a sufficient score on the ETS Advanced Placement Test, the International Baccalaureate exam, or the British A-Level exams. Credit is given as BIOL 091 only for the lecture portion of an introductory biology course. BIOL 091 does not fulfill the Living World sector or Biology major or pre-med requirements. Any student (with or without BIOL 091 credit) may take a Biology Department placement exam given early in the fall and spring semesters. Credit for a departmental placement exam results in lecture credit for the equivalent course (BIOL 101, 102, or 121). Students planning to major in Biology or BBB, or those satisfying pre-med requirements should follow either of the following introductory-level tracks:

Track I:

Recommended for students with A.P., I.B. or other advanced biology courses and high school chemistry.

- | | |
|----------|---|
| BIOL 121 | Molecular Biology of Life
(lecture and lab, 1.5 cu) |
| 124 | Organism Level Biology Lab
(lab with one hour lecture, 0.5 cu) |

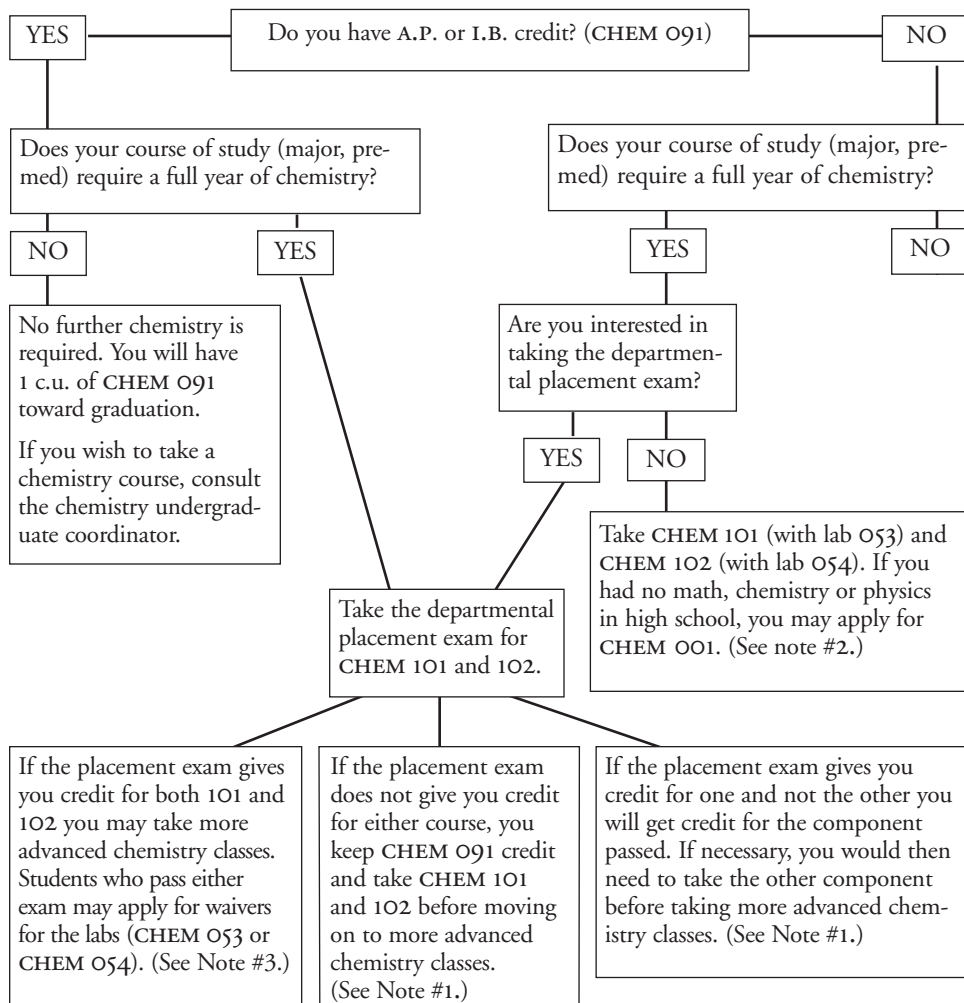
Track II:

Recommended for students with one year of high school biology.

- | | |
|----------|--|
| BIOL 101 | Introduction to Biology A
(lecture and lab, 1.5 c.u.) |
| 102 | Introduction to Biology B
(lecture and lab, 1.5 c.u.) |

A.P. Chemistry

Advanced placement credit in chemistry can be obtained based on the ETS Advanced Placement Test, the International Baccalaureate exam, the British A-Level exams and/or the Chemistry Department Advanced Placement Exams (which are given very early in the fall and spring semesters). Credit is given only for the lecture portion of an introductory chemistry course. For example, a student who has a score of 5 on the ETS Advanced Placement Test is given 1 c.u. for introductory chemistry, CHEM 091. More complete advice and explanations of advanced placement policies can be found on the Chemistry Department website, www.sas.upenn.edu/chem/.



Note #1

If you plan to be a natural science major, you should take the special section of CHEM 101 in the fall with CHEM 055 (lab). There is also an honors sequence for advanced students.

Note #2

To take CHEM 001, students must fill out an application and obtain a permit.

Note #3

In order to grant lab waivers, the Chemistry department will need to evaluate the labs and lab content of the student's high school Chemistry courses. Students should be prepared to submit lab material for review.

Language Placement

In order to receive credit for a language course at the elementary or intermediate level, all students who have previously studied the language must have a placement score. The only students exempt from having a placement score are those who have never studied the language before.

- French and Spanish offer computerized exams. Other departments offer written placement exams at the beginning of each semester.
- Arabic, Chinese, Italian, Hebrew, Russian, Latin and German exams are written and can be taken upon arrival on campus. The schedule and location of these exams will appear on the New Student Orientation website during the preceding summer.

- Students wishing to be evaluated in a modern language other than those taught by the language departments should consult the Penn Language Center.
- Credit will not be given for a language course taken at a lower level than a student's placement score indicates.
- Students who feel their placement scores do not accurately reflect their language level, or students who have other questions about their language study, should make an appointment to speak with the coordinator of their particular language program.

Students who have taken the S.A.T. II exam as part of their application to Penn may use that score to place them in the proper level:

S.A.T. II	SCORE	REGISTER FOR	S.A.T. II	SCORE	REGISTER FOR
French	Under 380	FREN 110	Latin	Under 450	LATN 101
	380 - 440	FREN 121		450 - 540	LATN 102
	450 - 540	FREN 130		550 - 590	LATN 203
	550 - 640*	FREN 140		600 - 640	LATN 204
	650 or above	Exempt		650 or above	Exempt
German	Under 350	GRMN 101	Russian	Under 350	RUSS 001
	350 - 440	GRMN 102		350 - 440	RUSS 002
	450 - 540	GRMN 103		450 - 540	RUSS 003
	550 - 640**	GRMN 104		550 - 640	RUSS 004
	650 or above	Exempt		650 or above	Exempt
Italian	Under 380	ITAL 110	Spanish	Under 380	SPAN 110
	380 - 440	ITAL 120		380 - 440	SPAN 120 or 121
	450 - 540	ITAL 130		450 - 540	SPAN 130
	550 - 640*	ITAL 140		550 - 640*	SPAN 140
	650 or above	Exempt		650 or above	Exempt
Japanese	Students who score 650 or above may satisfy the requirement by demonstrating oral proficiency in an interview.		Hebrew	700 or above***	Exempt

* Students who score between 600 and 640 can be exempted from the Language Requirement if they pass an oral exam.

** Students who score between 600 and 640 in German can be exempted from the Language Requirement if they achieve a rating of intermediate or better on an oral exam. Students may sign up in the German Department office before the end of the first week of classes.

*** Students who score under 700 in Hebrew must sign up to take the placement exam in the office of the Department of Near Eastern Languages and Civilizations. A score of 70 or above on Part 2 of the Jerusalem Examination also exempts students from the Language Requirement in Hebrew.

For links to course listings for the upcoming semester, course descriptions, courses meeting specific requirements and more, see www.college.upenn.edu/registration/selecting.php.

REGISTRATION

www.college.upenn.edu/registration/advance.php

Choosing Courses

Incoming freshmen should register for 4 to 4.5 c.u. for fall semester. See page 57 for more on courseload.

Students may wish to consider the following types of courses for their first semester:

Freshman Seminar

www.college.upenn.edu/courses/seminars/freshman.php

Freshman seminars provide freshmen with the opportunity for a direct personal encounter with a faculty member in a small class setting devoted to a significant intellectual endeavor.

While not required, freshman seminars are an excellent introduction to College academic life, and are highly recommended for first- or second-semester students. Most freshman seminars fulfill a sector of the College Sector Requirement. See page 55 for additional policies.

Mathematics

www.math.upenn.edu/

Many majors and pre-professional curricula require calculus. Thus, most undergraduates take some math. Students should consult with their advisor to determine whether they need to enroll in a calculus course.

- Students who have taken AB Calculus class in high school should register for the Calculus I course, MATH 104.
- Students who have had little or no calculus in high school, or who took AB Calculus but scored poorly on the exam, should take MATH 103 to prepare themselves for MATH 104.
- Students with A.P. credit for MATH 104 may choose from one of two courses for Calculus II: MATH 114 and MATH 115.
- Some majors (such as Biochemistry, Chemistry, Mathematics, Physics) require MATH 104 and 114; otherwise students who need a second semester of calculus may take either 114 or 115.
- A placement examination will be given in all MATH 103 and 104 classes at the beginning of the semester to assist students with course selection.

Writing Seminar

<http://writing.upenn.edu/critical/courses.html>

Students should satisfy the Writing Requirement by taking a writing seminar sometime in their first year. More information on the Writing Requirement and the Critical Writing Program is provided in the Writing Program Booklet and through the College website. See page 55 for additional policies.

Language Course

www.college.upenn.edu/curriculum/language.php

It is recommended that students begin to satisfy the Foreign Language Requirement in their first semester and continue to take courses without break until the requirement is fulfilled. Students planning to continue with a language that they have studied previously should read about language placement. Students who decide to start a new language at Penn should anticipate that it will require four full semesters of course work to achieve competency in the language.

Academic Exploration

The first few semesters are an excellent opportunity to be adventurous and request courses that arouse intellectual curiosity. It is wise to keep potential major interests in mind, but not be limited to a single potential field of study. See pages 33-47 for a brief introduction to major departments and programs, and their suggested courses for freshmen.

The Registration Process

Registration at Penn occurs at two distinct times: Advance Registration and the Course Selection Period. Each period functions differently.

Advance Registration

Advance Registration takes place in the middle of the preceding semester. For students in the Class of 2011, freshman Advance Registration begins on June 25 and ends on July 27, 2007. Students can access Penn InTouch at any time during this period to submit their requested courses.

There is no advantage to submitting these requests early. When Advance Registration closes, the system processes all requests, regardless of when they were submitted. Students may not receive all the courses or sections of courses they requested.

Course Selection Period

The Course Selection Period begins approximately two weeks after the close of Advance Registration and continues through the second week of class. Incoming freshmen will be able to view their roster on August 7th.

During this period, students can adjust their roster. Unlike Advance Registration, courses are filled as students register for them so timing is important, and students will know immediately if they are enrolled.

Preparing to Register

Prior to Advance Registration, incoming freshmen must have a discussion with their pre-major advisor about their academic interests and goals, and to plan a roster for their first semester. After this discussion, the student will be removed from registration hold and may register for courses. For more about pre-major advising, see page 19.

In preparation for the conversation with their pre-major advisor, student should:

- Carefully review the timeline for incoming freshmen on page 2 and make preparations well in advance of deadlines.
- Carefully read this handbook for regulations and opportunities that will help in academic planning.
- Complete the Freshman Questionnaire (<http://fusion.sas.upenn.edu/colsec/blog/>)
- Determine expected academic credit for advanced placement exams.
- View the 5-minute registration tutorial to help clarify the registration process. (See the link from www.college.upenn.edu/freshmen/.)
- Begin to review potential courses using the registration material mailed with this handbook including the *Freshman Timetable*, the *Freshman Seminar Brochure* and the *Writing Seminar Brochure*. For links to these and other resources for course selection see www.college.upenn.edu/registration/selecting.php. Also see Choosing Courses on page 26.
- Contact the pre-major advisor to request an appointment. Any student unable to reach their pre-major advisor should contact their peer advisor or the College Office.

The Registration Worksheet

Completing the registration worksheet in the *Freshman Timetable* gives students the time to find, prioritize and carefully check the courses they will request during registration. The more complete and accurate the worksheet is, the easier and more successful the on-line registration process will be.

Course Codes

Courses are identified in registration publications, on the worksheet and during the registration process, by a course code. This code is composed of a four-letter department code, a three-digit course number and a three-digit section number, e.g., PSYC 006.301.

Multi-Activity Courses

Multi-activity courses are divided into lectures, recitations and/or labs. Lectures are typically large classes led by a professor. Lecture classes may be divided into recitations that typically meet in smaller groups for discussion once each week. A course may have several lecture sections, in which case the recitation listed must correspond to the appropriate lecture.

Care must be taken to include all sections of any multi-activity course. All parts of a multi-activity course must be entered correctly or the student will not be enrolled in the course.

Course Times

Course listed in the *Timetable* for one hour (e.g., 9:00 to 10:00 A.M.) actually meet for only 50 minutes. Ten minutes of each class period are allocated for travel between classes. Students may schedule classes back-to-back, but are expected to arrive at the second class on time. (Note: The code for Thursday is R.)

Students are responsible for making certain that they are registered correctly for all parts of a course they are attending. Failure to do so will result in the student not receiving credit for the course.

Incoming students will be on a registration hold and unable to register for fall classes until the hold is cleared. This will be done by the pre-major advisor after the summer conversation with the student.

For more on holds see page 56.

Using Penn InTouch

After the conversation with the pre-major advisor and removal from Registration Hold, students use their PennKey and password to access Penn InTouch. Students who have difficulty using Penn InTouch should contact the College Office, answers@sas.upenn.edu.

The Basics

- From the Penn InTouch main page, click **REGISTRATION**
- From the drop-down menu, select the department code for the first course on the worksheet
- Enter the course and section number
- Click **REQUEST**
- Repeat this process for all requests.

Entering Multi-Activity Courses

First, request the “credit bearing” part of the course or activity. This is the part labeled 1.0 cu (or 0.5 cu for labs) to the right of the course listing in the *Course Timetable*.

The student will be prompted to register for the remaining portions of the course (lecture, recitation or lab).

All portions must be entered for the student to be enrolled.

In the *Freshman Timetable*, see BIOL 101 (lecture and lab) or HIST 020 (lecture and recitation) for examples of multi-activity courses.

Listing Alternates

While not required, this option is useful when requesting small seminars. Listing alternates to the primary request will increase the student’s chances of being enrolled in one of the seminar courses.

The “Any Section” Option

If a student has requested a course section that is full, this option instructs the system to find any alternate section that fits into the student’s schedule. During freshman Advance Registration, this feature is automatically enabled for all courses except writing seminars and freshman seminars.

Time Conflicts

The system will not allow a student to enroll in two courses that are in time conflict. If there is a time conflict, the system will enroll the student in the first course requested. If that course

is available, the student will be enrolled in it, and the second, conflicting course will be automatically dropped. If the first course is unavailable and the second course is available, the student will be enrolled in the second course.

Revising Requests

Course requests can be changed on Penn InTouch up until the end of the Advance Registration period.

Adding a Request

An alternate request may be added at any time during the Advance Registration period in the following way:

- Select **ADD** from the Registration menu
- Enter the course numbers for the desired classes
- Select **REQUEST**.

Changing the Order of Requests

The order of requested courses can be changed by selecting **List** from the Registration Menu, changing the preferred order of requested classes by renumbering them, and then selecting **UPDATE**.

Checking the Roster

Again, it is the student’s responsibility to be correctly registered for all elements of a course. Freshmen are advised to check their rosters on Penn InTouch at the beginning of the Course Selection Period on the morning of August 7.

Permits

Under certain circumstances special permission may be required to register for a course. Instructors or departments may enter such permits into the system, enabling the student to register for that course through Penn InTouch. If the student does not claim a permit (by adding the course through Penn InTouch), he or she will be dropped from the list and will have to start over.

Pass/Fail

It is not recommended that freshmen take courses on a pass/fail basis. See page 59 for complete policies regarding pass/fail.

RESOURCES AND SUPPORT SERVICES

LEARNING SKILLS

Learning Resources

www.vpul.upenn.edu/lrc/

The Office of Learning Resources in the Weingarten Learning Resources Center provides professional instruction in university relevant skills such as academic reading, writing, and study strategies to the Penn student community. Topics often addressed during instruction include time and project management, reading efficiently, taking lecture and text notes, exam preparation, test-taking skills and writing for a variety of purposes.

Individual instruction is available by appointment, and walk-in hours are also available during the academic year. The Office provides group instruction through workshops that address the needs and interests of specific groups of students.

Print information is available in the form of self-help pamphlets, handouts, and calendar tools for independent use.

Information Commons

<http://wic.library.upenn.edu/>

The David B. Weigle Information Commons supports collaborative and group work with the latest technologies. This high-tech space in the Van Pelt-Dietrich Library Center includes: group study rooms, two alcove meeting areas equipped with computers and monitors, and the Vitale Digital Media Lab, a fully-staffed facility with ten video-editing stations and a range of hardware and software.

The Weigle Information Commons hosts student assistance services from several program partners. Students receive both walk-in and workshop-based assistance with:

- Research skills
- Time and project management
- Public speaking
- Writing
- Multimedia software and hardware
- Technology and collaborative learning.

Students can work in groups to create multimedia presentations, movies, animations and podcasts.

Public Speaking (CWIC)

www.sas.upenn.edu/cwic/

Communication Within the Curriculum (CWIC) is Penn's speaking program. Its mission is to help students express themselves orally with clarity and confidence. CWIC provides a number of resources including regular office hours, course affiliations and free workshops.

Writing Center

www.writing.upenn.edu/critical/help/

The Penn Writing Center offers friendly, expert writing help to Penn undergraduate and graduate students. Writing tutors are trained to help students write with greater skill and confidence.

PENNCAP

www.vpul.upenn.edu/aap/aap_home.html

PENNCAP, the Pennsylvania College Achievement Program, is designed to help academically talented students, many from low-income or educationally disadvantaged backgrounds, reach their academic and career goals through a four-year program of academic and personal support, academic program planning, career decision-making, financial advising and cultural enrichment activities.

SUBJECT TUTORING

Tutoring Center

www.vpul.upenn.edu/aap/tutoringCenter_home.html

The Tutoring Center offers individual peer tutoring in specific courses in the following formats: Satellite Tutoring Center locations across campus available by appointment; course-based student-led workshops and weekly review sessions; and end of semester special events tutorials.

The Center also offers athletes tutorial support through the Collegiate Athletic Achievement Program in which scholar athletes are available to provide both private and study hall tutoring.

The Old Exam File gives students access to faculty-approved online exams (without answers) for many courses. This service is intended for use by students as a study tool only, coupled with peer tutoring.

Students are encouraged to take full advantage of the many available resources and support services.

For guidance in finding appropriate resources, contact the College Office.

Writing Center

Tutoring in writing is available through the Writing Center. See page 29.

Language Direct

<http://ccat.sas.upenn.edu/plc/languagedirect.php>

Language Direct is a program of the Penn Language Center that offers peer tutoring for students who want to improve their language skills in French, German, Italian, Spanish, Russian, Chinese and Japanese. The program offers both online help and drop-in tutoring.

LIBRARY SERVICES

www.library.upenn.edu/

Of the 15 University libraries, Van Pelt Library is the primary library for College students, providing access to databases, full-text electronic journals, and reference sources that are not freely available through public search engines.

For help navigating Van Pelt Library's wealth of resources, students may take a tour of Van Pelt, drop in during walk-in hours, schedule a one-on-one appointment with a reference librarian in a particular subject area, or set up an IM chat with a librarian. For those who prefer to do it themselves, Van Pelt offers two online tools:

PORT (Penn On-line Research Tutorial): Offers help on locating and evaluating information, avoiding plagiarism and citing sources.

Research Basics: provides good starting points for research in a variety of disciplines.

MENTORING

MAP

www.college.upenn.edu/map/

The Major Advising Program (MAP) is a peer advising system that helps students with their search for a major. Junior and senior students who have declared their majors volunteer through MAP to introduce their fields of study to students still investigating potential majors.

Major Dinners

www.college.upenn.edu/calendar/dinners.php

Held throughout the semester, these informal dinners with departmental representatives give students the opportunity to explore potential majors.

CAMS

www.college.upenn.edu/calendar/cams.php.

The College Alumni Mentoring Series engages students and alumni in mentoring relationships to help students determine how their current academic paths coincide with career aspirations.

Graduate / Undergraduate Mentoring Program

www.gsc.upenn.edu/programs/mentoring/

This program pairs undergraduate students with graduate and professional students to help undergraduates learn first-hand about preparing for, applying to, and succeeding in graduate school.

RESEARCH AND FELLOWSHIPS

CURF

www.upenn.edu/curf/

The Center for Undergraduate Research and Fellowships (CURF) provides information, advice, resources and encouragement to undergraduates interested in individual research, fellowships and scholarships. Their website provides details about their services as well as listings of fellowships and research opportunities.

Additional Sources of Funds

Many of Penn's departments, programs and cultural organizations also offer fellowships, scholarships or research opportunities. See the CURF website for these listings, or ask the individual program if such opportunities are available.

CUREJ

<http://repository.upenn.edu/curej/>

The College Undergraduate Research Electronic Journal (CUREJ) holds examples of undergraduate research exploring a wide range of academic interests from the natural sciences through the social sciences and humanities, including music, painting and more.

Information Commons

The Weigle Information Commons also offers assistance with student research. See page 29.

CAREER CHOICES

Career Services

www.vpul.upenn.edu/careerservices/

The Career Services office provides resources and services on career direction/assessment, employment and admission to graduate and professional schools, including individual advising, career seminars, placement workshops, and on-line job listings and alumni networks.

Career Services also provides the following:

PACNet

In the summer of 2007, Career Services will introduce the Penn Alumni Career Network (PACNet), a new online alumni network. More information will be available on the Career Services website.

Credentials Service

Students can open a file with Career Services to store resumes and recommendations. The Career Services website offers students creative ideas for resumes that appear professional, and staff who can advise on the most effective methods.

Penn Link

Penn Link lists internships in various fields that allow students to explore possible careers and develop their resumes. (See the College policy on internships, page 62.)

Careers and a Liberal Education

This engaging and informative booklet profiles College graduates, their undergraduate majors and their career paths. It also provides enlightening statistics about the professional success of graduates in the arts and sciences. To receive this booklet, contact the College Office, or view the booklet from www.college.upenn.edu/careers/liberaled.php.

HEALTH SERVICES

Health Education

www.vpul.upenn.edu/ohel/

The Office of Health Education provides risk reduction and public health promotion services including data collection and analysis, educational workshops, health awareness events and campaigns, academic courses, training and consultations.

Counseling

www.vpul.upenn.edu/caps/

Counseling and Psychological Services provides professional psychological and psychiatric services to Penn students who are having personal problems involving social, emotional, academic and career issues.

Student Health

www.vpul.upenn.edu/shs/

Student Health Services (SHS) offers accessible and affordable care for illness, injury, general health, travelers' health and emergencies. In addition to the clinical services, SHS works in close collaboration with the other health and wellness departments in the University Life Division, and with the University of Pennsylvania Health System. SHS also coordinates public health programs and activities for Penn students.

Alcohol Education

www.vpul.upenn.edu/alcohol/

Alcohol Policy Initiatives is responsible for alcohol education including programs about individual and group responsibility, recovery and social options.

Fitness

www.pennathletics.com/

Penn Athletics provides a range of options for intercollegiate, intramural and club team sports as well as individual options for physical fitness.

Disabilities Services

www.vpul.upenn.edu/lrc/sds/

Student Disabilities Services provides comprehensive, professional services and programs for students with disabilities to ensure equal academic opportunities and participation in University-sponsored programs.

ADDITIONAL CAMPUS RESOURCES

Cultural Organizations

www.vpul.upenn.edu/resources.html

University Life provides resources that recognize and support the needs of diverse student populations at Penn. These resource offices include:

- Greenfield Intercultural Center
- Makuu: The Black Cultural Resource Center
- La Casa Latina
- Pan-Asian American Community House
- Lesbian Gay Bisexual Transgender Center
- Penn Women's Center

Activities and Interest Groups

For activities outside the classroom with intellectual and social components see www.college.upenn.edu/support/intellect.php

The Office of Student Life maintains a listing of links to Penn's student organizations. See www.vpul.upenn.edu/osll/.

Penn Services

Chaplain, Office of the
www.upenn.edu/chaplain/

Civic House
www.vpul.upenn.edu/civichouse/

Computing Services in College Houses
<http://www.rescomp.upenn.edu/>

Ombudsman, Office of the
www.upenn.edu/ombudsman/

Registrar, Office of the
www.upenn.edu/registrar/

Student Financial Services:
www.sfs.upenn.edu/

DEPARTMENTS AND PROGRAMS

African Studies

www.africa.upenn.edu/AS.html

African Studies brings together researchers and students from all schools to gain knowledge on contemporary and historical Africa in a variety of disciplines. Students may take African Studies courses through a number of departments and programs or study any of the almost ten African languages taught at Penn.

Courses appropriate for first-year students include AFST:

- 018 Popular Cultures in Africa
- 075 Africa before 1800
- 190 Introduction to Africa
- 225 African Language and Culture
- 257 Contemporary African Politics

Africana Studies

www.sas.upenn.edu/africana/

Africana Studies is an interdisciplinary field of study devoted to the critical and systematic examination of the cultural, political, social and historical experiences of peoples of the African diaspora. The major is designed to provide students with an integrated understanding and appreciation for the African, African-American, Caribbean and other African diasporic experiences in their diverse dimensions.

Courses appropriate for first year students include AFRC:

- 001 Introduction to Africana Studies
- 006 Race and Ethnic Relations
- 018 Popular Culture in Africa
- 041 Homelessness & The Urban Crisis
- 050 World Musics and Cultures
- 075 Africa Before 1800
- 079 Literatures of Jazz
- 081 African American Literature
- 111 Religion and Secular Values: The American Jesus
- 116 Caribbean Culture and Politics
- 120 Social Statistics
- 150 Interracial Marriage and Multiracials
- 176 Afro-American History, 1550-1876
- 177 Afro-American History, 1876-Present

Anthropology

www.sas.upenn.edu/anthro/undergrad.html

Anthropology is the study of human diversity, past and present. The Department of Anthropology integrates cultural anthropology (living peoples), archaeology (prehistoric and historical peoples), biological/physical anthropology (the interaction between culture and human biological variation) and linguistic anthropology (language variation and its relation to culture). Anthropology majors experience the full breadth of the discipline while choosing a course of study best suited to their own needs.

Introductory courses in the major are ANTH:

- 001 Introduction to Archaeology
- 002 Introduction to Cultural Anthropology

Also appropriate for first year students are ANTH:

- 003 Introduction to Human Evolution
- 004 The Modern World and Its Cultural Background
- 009 Writing Seminars in Anthropology (fulfill the Writing Requirement)
- 012 Globalization and Its Historical Significance
- 018 Popular Culture in Africa (Freshman Seminar)
- 102 American Civilization: 20th Century
- 104 Sex and Human Nature
- 133 Native Peoples and the Environment (Freshman Seminar)
- 115 Culture Clash (Academically-Based Community Service Course)
- 116 Caribbean Culture and Politics
- 122 Becoming Human
- 123 Communication and Culture
- 132 Anthropology and the African Diaspora
- 190 Introduction to Africa
- 219 Archaeology Field Project (participate in archaeological dig)
- 220 Archaeology Laboratory Field Project
- 243 Being Human: Biology, Culture and Human Diversity

It is sometimes tempting to take what seems a safer path and select courses from academic fields already familiar. But with courses offered in over 50 departments and programs, College students have the opportunity to sample courses across a wide spectrum of disciplines. By thinking creatively about course selection, students can build their own unique and rewarding undergraduate experience.

For a list of undergraduate chairs, including contact information, see www.college.upenn.edu/majors/chairs.php.

For a list of departmental addresses and phone numbers, see www.college.upenn.edu/majors/offices.php.

Architecture

www.design.upenn.edu/new/arch/undergrad/

The mission of the undergraduate program in architecture is to develop basic skills, knowledge and methods of inquiry in the discipline of architecture within the context of a studio-based liberal arts education. The program provides for the study of architecture on three levels of engagement: a minor, a major with a concentration in either Design or History, Theory and Criticism and an Intensive Major qualifying an undergraduate student for advanced standing in the Master of Architecture professional degree program offered by Penn's School of Design.

The program offers the freshman seminar ARCH 102.301, Architecture Today.

Asian American Studies (minor only)

asam.sas.upenn.edu/

Asian American Studies is an interdisciplinary program that explores the historical and contemporary experiences of Asian immigrants and of persons of Asian ancestry in North America and the relevance of those experiences for understanding race and ethnicity in national and global contexts.

Courses appropriate for first year students include ASAM:

- OO1 Asian Americans in Contemporary Society
- OO2 Introduction to Asian American Literature
- OO3 Introduction to Asian American History
- OO9 Writing About Asian American Communities
- OO9 Writing About Race and Popular Cinema

Biochemistry

www.sas.upenn.edu/biochem/

Most developments in today's and tomorrow's life sciences rely extensively on techniques and principles of chemistry and physics. The importance of this relationship has led to the design of a major that prepares students for advanced study in biochemistry, biophysics, cell biology, genomics, molecular biology, nanotechnology, neurobiology, structural biology and genetics-based biotechnology. It can also provide the basic science background for health professional schools and for prospective science teachers. An important part of the curriculum is that all majors work in faculty research laborato-

ries, which can start as early as the freshman year. Juniors and seniors actively participate in organizing and running the Chemistry Department's biological chemistry seminar series.

Students with three or more A.P. science and mathematics credits should contact the undergraduate chair before their first semester at Penn. More ambitious students should investigate the Vagelos Molecular Life Sciences Scholars Program, www.sas.upenn.edu/biochem/vspmls.html.

Biological Basis of Behavior

www.psych.upenn.edu/bbb/

Biological Basis of Behavior (BBB) is an interdisciplinary major in which students explore the relationship between behavior (both human and animal) and its organic bases. BBB offers courses in virtually all areas of neuroscience, ranging from cellular neurobiology to cognitive neuropsychology, and integrates these interdisciplinary courses with basic science requirements in biology, chemistry and psychology. The program integrates interdisciplinary teaching and research in neuroscience through the cooperative interactions of faculty and staff in several departments in the School of Arts and Sciences and the Schools of Medicine and Veterinary Medicine.

Courses appropriate for first-year students include:

- BIOL 101/102 Introduction to Biology
- 121 Introduction to Biology: The Molecular Biology of Life
- PSYC OO1 Introduction to Experimental Psychology
- CHEM 101/102 General Chemistry

Biology

www.bio.upenn.edu/

The Biology major provides a broad background in biology together with the opportunity to pursue specific areas of interest in greater depth. Topics in molecular biology and the study of evolutionary processes, including proteomics, computational genomics, molecular evolution and epigenetics.

The Biology major can serve as preparation for graduate study in the biological sciences, graduate training in health-related professions, teaching or employment in a laboratory or a conservation-related job.

The requirements include two semesters of introductory biology, a choice of three intermediate-level courses and four additional courses selected in order to further develop a comprehensive understanding of biology or to specialize in a particular subject area.

See page 23 for suggested courses.

Biophysics

www.sas.upenn.edu/biophysics/

Biophysics is a discipline that bridges and includes both the biological sciences and the physical sciences. Biophysics is concerned with physical and chemical explanations of living processes, especially at the cellular and molecular levels. Detailed molecular descriptions are emerging for genetic elements and for the mechanisms that control their propagation and expression. Protein structure, nucleic acid structure, enzyme mechanisms, the phenomena underlying cellular behavior, excitable phenomena in nerve, muscle and visual cells, and integrative neural phenomena all have been subject to intense biophysical study. Physicists and other scientists with strong backgrounds in mathematics, chemistry and physics have played dominant roles in these developments; they will continue to contribute as more detailed descriptions become available and increasingly complex phenomena are studied.

The biophysics major requires the introductory courses in biology, physics and chemistry. First-year students can begin with these introductory courses in any order. Students with a very strong background in physics occasionally choose to begin with the major's main survey course, PHYS 280.

Chemistry

www.sas.upenn.edu/chem/

Chemistry is concerned with the study of matter and the changes matter can undergo. The chemistry program provides a basic foundation for career opportunities in chemical research and teaching, in scientific communication and information transfer, and in the health professions. Students who desire preparation for advanced study in chemistry or allied fields where research experience is advantageous should complete the chemistry honors program.

See page 24 for suggested courses.

Cinema Studies

cinemastudies.sas.upenn.edu/

Cinema Studies is an interdisciplinary program designed to acquaint students with the history and interpretation of cinema and to allow them to combine knowledge of the field with the traditional aims of an undergraduate arts and sciences education. The program can satisfy the needs of students who seek a general exposure to the field or who are preparing for careers in cinema scholarship, journalism, criticism, arts management or entertainment law. Students seeking employment in the filmmaking industry should know that this program does not provide professional technical training.

Courses appropriate for first-year students include CINE:

- 101 Film History
- 102 Analysis and Methods

Classical Studies

ccat.sas.upenn.edu/clst/

The Department of Classical Studies promotes the investigation and interpretation of all aspects of ancient Greek and Roman culture and its influence from antiquity through the Middle Ages and Renaissance up to the present day. It focuses not just on the ancient languages and literatures, but also on material culture, archaeology, history (political, social, economic and intellectual), philosophy, religion, mythology and the classical tradition.

Courses appropriate for first-year students, and required for the major include ANCH:

- 026 The History of Ancient Greece
- 027 The History of Ancient Rome

Cognitive Science

www.ircs.upenn.edu/education/ba-cogsci.shtml

Cognitive science is the empirical study of intelligent systems, including the human mind. It is, by its nature, interdisciplinary, drawing from biology, computer science, linguistics, mathematics, neuroscience, philosophy and psychology. It combines the application of approaches from these disciplines to the study of language processing, perception, action, learning, concept formation, inference and other activities of the mind and the applications of the resulting theories to information technology and the study of artificial intelligence.

continued

Students should begin their studies with COGS 001, Introduction to Cognitive Science, in the fall of their freshman year if at all possible.

Additional courses appropriate for first-year students include:

- BIBB 109 Introduction to Brain and Behavior
- CSE 110 Introduction to Programming
112 Networked Life
120 Programming Languages and Techniques
- LING 001 Introduction to Linguistics
- PHIL 004 History of Modern Philosophy
- PSYC 001 Introduction to Experimental Psychology
149 Introduction to Cognitive Neuroscience

Communication

www.asc.upenn.edu/

Undergraduate students majoring in Communication at the University of Pennsylvania study media institutions, communication and contemporary culture, and a wide variety of communication influences in social, political and economic contexts. The Bachelor of Arts Degree with a major in Communication is granted by the College of Arts and Sciences, but the major curriculum is designed, administered and instructed by the Annenberg School.

Courses appropriate for first-year students include COMM 125 and 130; however, students often enroll in these courses as second-semester freshmen or as first-semester sophomores.

Comparative Literature

ccat.sas.upenn.edu/Complit/

The undergraduate major program in Comparative Literature fosters the study of literature and culture from a cross-national and global perspective. The core courses teach students to appreciate the variety of meanings texts acquire in different institutional and creative contexts, among them law, medicine, art and music, and different social contexts, such as gender, ethnicity, race and class. Advanced courses explore topics from literary theory to the investigations of literary genres and periods within particular cultural traditions. The major program is well suited for students with interdisciplinary interests in literature and other fields.

Courses appropriate for first-year students include COML:

- 100 Introduction to Literature
103 Performing History
150 War and Representation
197 Madness and Madmen in Russian Culture
213 Saints and Devils in Russian Literature (Freshman Seminar)
245 Study of a Theme
253 Metropolis: Culture of the City
266 Introduction to Modern Hebrew Literature
282 Modern Hebrew Literature in Translation

Creative Writing (minor only)

www.writing.upenn.edu/cw/

The creative writing faculty at Penn has included some of the most important writers of their time and some of Penn's most brilliant and effective teachers. This rich tradition, combined with the emergence of a lively culture of writers at Penn, has made the minor in Creative Writing very attractive.

Courses appropriate for first-year students include ENGL:

- 010 Creative Writing
112 Fiction Writing Workshop
113 Poetry Writing Workshop
116 Screenwriting Workshop
135 Creative Non-Fiction Writing
157 Introduction to Journalistic Writing

Criminology

<http://www.crim.upenn.edu/>

Beginning with an introduction to crime and justice, the undergraduate major in Criminology enables students to acquire a theoretical and methodological framework for generating and assessing knowledge about crime and social control. The program draws upon disciplines from statistics to neuroscience to develop a liberal arts approach to the subject of crime. Students become familiar with the process of hypothesis formulation and testing, research design, interpretation of results, and peer-review journal publication. The program culminates in a two semester sequence: a faculty research seminar in which students undertake primary data collection or analysis and a senior thesis that expands upon the work in the first semester.

Those pursuing the major will find careers not just as future lawyers or police officials, but also as doctors, journalists, neuroscientists, entrepreneurs, investment bankers, schoolteachers, elected officials, civil servants, editors, and the full range of vocations pursued by Penn alumni.

Students intending to major in Criminology should begin with CRIM 100 (SOCI 233), Criminology, an introductory course that examines the multi-disciplinary science of law-making, law-breaking and law-enforcing. This course is also appropriate for non-majors interested in this topic and fulfills the sector requirement in Society.

East Asian Area Studies

www.ceas.sas.upenn.edu/degprograms.shtml

This interdisciplinary program focuses on East Asia as a region of the world and human experience. Approaches draw from the social sciences, humanities and legal studies while maintaining high standards in language study.

Students interested in the major should begin with the study of an East Asian language and a course introducing East Asia such as:

EALC 001 Introduction to Chinese Civilization

002 Introduction to Japanese Civilization

HIST 120 Korean History before 1860

Other courses appropriate for first-year students include:

ARTH 100 Modern East Asian Art and the Venice Biennale (Freshman Seminar)

EALC 009 Writing About East Asia

013 Art and Civilization in East Asia

041 Late Imperial China

127 Arts of China

East Asian Languages and Civilizations

www.sas.upenn.edu/ealc/

The program in East Asian Languages and Civilizations offers language training and courses in the history, literature, linguistics, art history, performance and gender studies, philosophy, religion and ethics of East Asia. Students may major in either Chinese or Japanese, and minor in Chinese, Japanese or Korean.

Courses appropriate for first-year students include EALC:

001 Introduction to Chinese Civilization

002 Introduction to Japanese Civilization

013 Art and Civilization in East Asia

122 Chinese Fiction and Drama

131 Introduction to Classical Chinese Thought

152 Japanese Literary Tradition

160 Introduction to Japanese Thought

Courses under the 100 level and most under the 200 level are also appropriate for freshmen.

Economics

www.econ.upenn.edu/

Economics is the science of choice—the science that explains the choices made by individuals and organizations. A major in economics gives training in economic principles and in their application to problems of contemporary significance. Students preparing for a career in law, public service or business who want a liberal arts program rather than a more technical curriculum may find this major particularly rewarding.

Introductory Economics, Micro- (001) and Macro-Economics (002), are prerequisites for all other offerings of the Economics Department. Students interested in the Economics major will also need to have credit for one year of calculus equivalent to MATH 104 / 114 or 104 / 115. The department recommends that students take MATH 114 rather than 115.

English

www.english.upenn.edu/

As an intellectual discipline, English provides students the opportunity to study literature and language within a major of flexible design while cultivating their reading and writing skills with care and assiduity. Students study “core” authors while at the same time having the option of choosing a concentration suited to their own intellectual interests.

Nearly all concentrations involve some interdisciplinary study, and students are encouraged to understand English and American history from an international perspective and in relation to other cultural and expressive forms.

Any course between ENGL 100 and 104 provides a good introduction to the major for freshmen. The survey courses, ENGL 020, 040, and 060 count as core courses for the major and are also good introductions for freshmen.

Environmental Studies

www.sas.upenn.edu/earthleesmajor/programs/environment.html

Many contemporary problems of environmental quality are so complex that modern society and technology have not yet been able to coordinate efforts to reach satisfactory solutions. There is thus an urgent need for individuals to be well versed in one discipline (e.g., geology, ecology, political science, history, etc.) and to be able to apply that discipline directly to environmental problems by being sensitized to the contributions that other disciplines can make.

Graduates of the Environmental Studies program are prepared for professions directly or indirectly involved with problems of environmental quality; they may go on to further study either in their areas of concentration, in formal programs of Environmental Studies or in medical, law or other professional schools. In many cases, a student's career objectives are best realized by taking a double major in environmental studies and a specific area of concentration.

Freshmen interested in Environmental Studies should begin with ENVS 200: Introduction to Environmental Analysis.

European Studies (minor only)

www.college.upenn.edu/minors/european.php

European Studies is an interdisciplinary minor and an ideal supplement to majors in History, Political Science, Sociology and language. It is designed to give students an understanding of Europe as a historical and cultural entity and its world leadership in business, politics and culture. Students also learn about the institutions of the new Europe—Union, Council of Europe, European Court—reflecting the largest experiment in building a global system of governance in history.

Fine Arts

www.design.upenn.edu/ugfnar/index.htm

Visual thinking is as integral to the life of the mind as verbal and numerical discourse. The major in Fine Arts is based upon the premise that an education in liberal studies should include the challenge of learning to see. Further, the education of the artist is dramatically improved by an education in liberal studies.

This program provides opportunities for intellectual growth through studies in visual formulation and visual articulation.

Courses appropriate for first-year students (and requiring no prior training) include FNAR:

- 061 Film/Video I
- 065 Cinema Production
- 123 Drawing I
- 142 3-D Design
- 145 Sculpture I
- 211 Color
- 222 Big Pictures: Mural Art
- 231 Painting I
- 243 Figure Sculpture I
- 251 Printmaking: Intaglio
- 252 Printmaking: Relief and Screen Printing
- 257 Printmaking: Mixed Media
- 260 Beginning Ceramics: Handbuilding
- 261 Clay Wheel Throwing I
- 264 Digital Design Foundations
- 271 Photography I
- 280 Figure Drawing I

Folklore and Folklife (minor only)

www.sas.upenn.edu/folklore/index.html

Folklore is the study of human expression in languages, images, music and food, and of movements in traditional societies and the representation of these forms in the world of modern technology, literature and the arts. Folklore's reach is global, ranging from villages, towns and cities to migrant and immigrant communities in the megalopolitan and rural regions of the world, and spanning divergent population groups as well. The field of study is vast, cross-cultural and interdisciplinary.

Courses appropriate for first-year students include FOLK:

- 100 Freshman Seminar
- 101 Introduction to Folklore
- 103 Performing History
- 109 Writing About Gender
- 120 Money in Society and Culture
- 145 Comparative Medicine
- 154 Modern Jewish Literature in Translation
- 158 Music of Latin America
- 201 American Folklore
- 203 Afro-American Folklore
- 217 Folk Music and Folk Song
- 228 Ballads and Folk Poetry
- 231 American Popular Culture
- 236 Gossip, Rumor and "Urban" Legend
- 240 Fairy Tales
- 247 Gender, Genre and Power

French Studies

ccat.sas.upenn.edu/roml/french/french.html

The French language and French civilization have long been dominant influences on world culture and France has played a major role in world history. After English, French the second truly global language, spoken not only in Europe (France, Belgium, Switzerland) but also in North America, the Caribbean, South America, Africa, Southeast Asia and the Pacific. A sound knowledge of the French language and culture is therefore of great advantage to students majoring in diverse areas (political science, international relations, literature, cinema, art history, psychology).

Courses appropriate for first-year students include FREN:

- 212 Advanced Grammar and Composition
- 221 Introduction to French Literature

Students must complete FREN 140 or the equivalent through A.P. or placement testing before taking 200-level courses in French.

Gender, Culture and Society

www.sas.upenn.edu/wstudies/

Gender, Culture and Society is an interdisciplinary major and minor within the Women's Studies program that offers opportunities to study the role of gender and sexuality in human societies.

Courses appropriate for first-year students include:

- GSOC 002 Gender and Society
 - 090 Topics in Women and Literature/ Gender, Sexuality and Literature
- SOCI 122 The Sociology of Gender
 - 149 Women, Gender, Sexuality and the Law
 - 235 Education and Social Psychology of Women

Geology

www.sas.upenn.edu/earth/eesmajor/programs/geology.html

Geology is a dynamic and rapidly evolving physical science. The theory of plate tectonics gives new meaning and new impetus to areas of investigation such as mineralogy, petrology, volcanology, stratigraphy, economic geology and paleontology. Due to its interdisciplinary nature, geology includes subjects as varied as environmental geology, evolutionary biology, solid-state chemistry, oceanography, mineral economics and geochronology.

Courses appropriate for first-year students include GEOL:

- 003 Evolution of the Physical World
- 100 Introductory Geology
- 111 Introductory Geology Lab

Germanic Languages and Literatures

ccat.sas.upenn.edu/german/

German art, literature, music, philosophy, religion and research in the sciences have profoundly influenced the cultural traditions of other countries. The political events of Germany's past and present frequently affected the entire world. The study of German culture and literature enables students to understand the spirit of Germany, to trace its roots, to comprehend the cross-currents in its thinking, and to experience the contributions of German poets, novelists, film-makers and authors.

The Department offers language courses in German, Yiddish, Dutch and Swedish as well as Yiddish literature both in Yiddish and in English translation.

Courses appropriate for first-year students include GRMN:

- 001 Looking for Lola (Freshman Seminar)
- 002 Lords of the Ring (Freshman Seminar)
- 008 Superstition and Erudition (Freshman Seminar)
- 216 Introduction to Literature
- 244 Metropolis: Culture of the City
- 246 Heroes, Minstrels, Knights
- 253 Freud
- 256 The Devil's Pact
- 269 Introduction to German Culture
- 237 Berlin

Health and Societies

ccat.sas.upenn.edu/hsoc/

The interdisciplinary Health and Societies Program offers a major designed to make undergraduates a part of the network of scholars and institutions at Penn that share a focus on health, the social sciences and the humanities. Building upon a long tradition of research and teaching excellence in these areas, the major allows students to explore serious intellectual questions while acquiring the skills necessary for 21st-century health care and public health decision-making, as well as careers in law, government, journalism, and business.

continued

Courses appropriate for first-year students include HSOC:

- 002 Medicine in History
- 010 Health and Societies
- 145 Comparative Medicine
- 150 American Health Policy
- 175 Medical Sociology

Hispanic Studies

ccat.sas.upenn.edu/roml/spanish/spanish.html

The knowledge of Hispanic cultures gives students the ability to communicate in the third-most-spoken language of the world. The demographic, economic and political realities of the United States, the articulation of a mainstream English culture with an ever-increasing diversity of Hispanic and Latino cultures, and the ongoing forging of strong cultural and economic ties throughout the Americas have moved Spanish out of the bounds of the category of foreign language and culture in this country.

Courses appropriate for first-year students include SPAN:

- 202 Advanced Spanish
(pre-requisite: SPAN 140 or the equivalent through A.P. or placement).
- 212 Advanced Spanish Syntax
(prerequisite: SPAN 202 or equivalent)
- 219 Texts and Contexts
(prerequisite: SPAN 212)

History

www.history.upenn.edu/

The Department of History offers a variety of courses dealing with the political, social, diplomatic, intellectual, economic and cultural history of the Americas, Europe, Asia and Africa, from the early medieval period to the present. The department seeks to give undergraduates both specific mastery of particular times, places and aspects of the human condition and the critical skills to think historically about both long-term and modern phenomena, emphasizing the dynamics of change and continuity over time.

The department offers introductory survey courses in HIST:

- 001, 002 European History
- 003, 004 Asian History
- 010, 011 World History
- 020, 021 American History

There are also introductory courses that cover other regional and cultural areas such as HIST:

- 048, 049 Russian History
- 050, 051, 053 British History
- 070, 071 Latin American History
- 080, 081 Middle Eastern History
- 088 Indian History
- 090, 091 Japanese History
- 096, 097 Chinese History
- 120, 121 Korean History
- 126, 127, 128 European History
- 133, 134 French History
- 139, 140, 141 Jewish History
- 155 Asian American History
- 168, 169 History of American Law
- 170, 171 The American South
- 176, 177 African American History
- 345, 346 American Women's History

History of Art

www.arthistory.upenn.edu/

The Department of the History of Art invites students to explore the connections between the forms and meanings of visual media as part of the histories of human civilizations. As a humanistic discipline, history of art emphasizes the scholarly investigation of the visual arts rather than technical training. The program provides a solid foundation for a general arts and sciences education and for careers in communications, public relations and other fields where engagement with images and texts is paramount. Courses in the history of art also complement majors in literature, history, religion, area studies, cinema studies, studio art and others.

Freshmen are encouraged to take ARTH 001 and/or ARTH 002, two integrative gateway courses that take advantage of all of the resources of a great university and the vibrant artistic city of Philadelphia.

International Relations

www.sas.upenn.edu/irp/

International Relations provides a multidisciplinary approach to the ways in which governments, private groups and individuals relate to one another in the global political and economic systems. The major provides a solid grounding in the methodologies of political science, history and economics but also allows students maximum flexibility to pursue special interests.

The major does not require foreign language training beyond the College's Foreign Language Requirement, though an extra semester of foreign language, as well as study abroad, is strongly encouraged. Students pursuing honors in the major must complete at least one semester of foreign language study beyond the proficiency requirement level.

Prospective majors must complete four prerequisite courses prior to declaring the major:

PSCI 001 Introduction to Political Science, or
050 World Politics, or
110 Comparative Politics

HIST 002 Europe and the Wider World, or
004 Asia and the Wider World, or
011 World History

ECON 001 Introductory Microeconomics, and
002 Introductory Macroeconomics

International Studies and Business

www.upenn.edu/huntsman/

The Huntsman Program in International Studies and Business is a unique, four-year interdisciplinary program that integrates business education, advanced language training and a liberal arts education. Huntsman students specialize in the area of the world in which their target language is spoken and graduate with a professional education and an understanding of the political, economic and cultural complexities in the world. Huntsman graduates earn two degrees, a Bachelor of Arts in International Studies from the School of Arts and Sciences and a Bachelor of Science in Economics from the Wharton School. Students apply to the Huntsman Program when they apply to Penn; it is not possible to transfer into the program after matriculation.

Italian Studies

ccat.sas.upenn.edu/roml/italian/italian.html

Italian Studies offers courses in language, literature, film, linguistics, cultural studies and civilization for students with or without a background in Italian. At the core of this program is the study of the Italian language, understood not only in the narrow sense of verbal communication but also in the larger sense of textual messages—literary, cinematic, historical, art-historical and mass-cultural.

Jazz Studies (minor only)

The interdisciplinary minor in jazz and popular music studies is intended to build a community of students with an interest in music in the contemporary world, Academically Based Community Service as a form of learning, and interdisciplinary study. The minor is intended for:

- Students who would not conventionally think of themselves as music majors, but who have taken a series of classes that fulfill the requirements of the minor, and
- Music majors who want to include knowledge of jazz and popular music performance into their degrees in the major requirements.

Courses recommended for first-year students (in order of priority) include: MUSC 075, ENGL 080 (not offered every semester), MUSC 044, MUSC 050 or SOCI 137.

Consult Professor Carol Muller, camuller@sas.upenn.edu, for further information.

Jewish Studies

ccat.sas.upenn.edu/jwst/

Jewish Studies is an interdepartmental program that allows students to study the Jewish experience from several different perspectives of language (Hebrew and Yiddish), literature in translation and in the original languages, the history and culture of the Jewish people, the exploration of Jewish law, and the role gender plays in Judaism. The goal of the major is the acquisition of the knowledge and skills necessary to integrate these perspectives and varieties of knowledge in order to understand the Jewish experience.

Majors should begin the study of Hebrew or Yiddish as soon as possible. Courses appropriate for first-year students include JWST:

- 031-32 Beginning Yiddish I/II
- 033-34 Intermediate Yiddish I/II
- 051-52 Elementary Modern Hebrew I/II
- 053-54 Intermediate Modern Hebrew III/IV
- 100 Rewriting the Bible
- 101 Translating Cultures (Freshman Seminar)
- 102 Modern Hebrew Literature and Culture in Translation: Holocaust in Literature and Film
- 102 Women and Jewish Literature
- 123 Introduction to Judaism
- 130 American Jewish Experience

continued

- 150 Introduction to the Bible
- 152 Jewish Law and Ethics
- 156 History of Jewish Civilization I
- 157 History of Jewish Civilization II
- 158 History of Jewish Civilization III
- 187 Jewish American Literature
- 257 Studies in Rabbinic Literature
(Knowledge of Hebrew required)
- 260 Jewish Folklore
- 265 Yiddish Literature and Culture in
Eastern Europe
- 296 Jewish Humor

Latin American and Latino Studies

www.sas.upenn.edu/lals/

This program allows students to approach Latin American and Latino cultures in all their diversity of expression—not only “high culture” but also folk and other forms, from pre-Columbian times to the present, from Rio de Janeiro to New York and beyond. Ibero-America is a focal point from which undergraduates may reach out toward scholarly research on the pre-Columbian societies of the Americas, Spain and Portugal, the non-Hispanic Caribbean and Latino communities in the United States.

Courses appropriate for first-year students include LALS:

- 213 Latin American Politics
- 240 Topics in Brazilian Culture
- 254 Archaeology of the Inca
- 307 Gender in Latin America

Life Sciences and Management

www.upenn.edu/lsm/

The Vagelos Program in Life Sciences and Management (LSM) is administered jointly by the School of Arts and Sciences and the Wharton School. Through an integrated curriculum that combines bioscience and business studies, as well as internships in laboratory and business settings, the program prepares students for intellectually and managerially exciting careers in the Life Sciences sector, including the pharmaceutical, biotechnology and biomedical industries.

Students apply to the program when they apply to Penn for freshman admission. The LSM program does not take transfer applications.

Linguistics

www.ling.upenn.edu/undergrad/ugrad.html

Linguistics explores the methods and findings of the scientific study of human language and its relationships to cognition, society and history. Linguistic training is relevant to work in anthropology, philosophy, psychology, and language and literature, as well as to careers in such fields as education, computer science and law.

Though not a formal prerequisite, students without prior study in the field are encouraged to take LING 001, Introduction to Linguistics, in the freshman year. Students may also approach the subject by enrolling in a freshman seminar such as LING 054, Bilingualism in History, or LING 058, Language and Cognition.

Additional courses appropriate for first-year students include LING:

- 102 Introduction to Sociolinguistics
- 103 Language Structure and Verbal Art
- 105 Introduction to Cognitive Science
- 106 Introduction to Formal Linguistics
- 110 Introduction to Language Change
- 115 Writing Systems
- 135 Psychology of Language
- 160 Introduction to African American and Latino English (Academically Based Community Service course)

Logic, Information and Computation

logic.sas.upenn.edu/

Logic is one of the core disciplines in investigations of information and computation, and it plays a major role in advances in computer security, database technology, networking and software engineering. Logic has expanded its role within mathematics beyond foundational studies and now enjoys rich connections with areas as diverse as algebra, analysis and combinatorics. This program provides students with a strong background to pursue computational aspects of the natural, biological and social sciences, as well as preparing them for careers in information technology.

Mathematics

www.math.upenn.edu/

Mathematics is at the core of modern theoretical science. For centuries, it has provided

an expressive language as well as a theoretical framework for advances in the physical sciences, and it has become central in the life and social sciences. Most recently, computer science has provided fertile ground for the development of new mathematical ideas and techniques. The traditional core areas of mathematics are well represented at Penn, as are developing areas; Penn is one of the world's leading centers in the application of logic to theoretical computer science.

Mathematics majors enjoy a high degree of flexibility to pursue specialized mathematical subjects or to study how mathematics is used in other disciplines.

See information on page 23 for appropriate course selection.

Modern Middle East Studies

mec.sas.upenn.edu/mmes.html

There has rarely been a time in which an in-depth understanding of the languages, cultures, history, and politics of the contemporary Middle East has been more important. This new interdisciplinary major is designed to allow students to specialize in the Middle East as a region of the world and human experience by combining course work using both social scientific and humanistic approaches, underpinned by relevant language skills. Students will work with faculty committed to supporting interdisciplinary, applied, research-oriented advanced study. The major gives students opportunities to work on problems of politics, policy, history, ideology, social thought, economic development and international relations.

Music

www.sas.upenn.edu/music/

The study of music can serve as the central focus of a general liberal arts education as well as a platform for students who aspire to graduate training in music history, theory, ethnomusicology or composition. The department also offers a more thorough introduction to the history and theory of music and to its meanings in different cultures around the world.

Courses appropriate for first-year students that do not require knowledge of music notation include MUSC:

- 021 Introduction to the History of Western Music
- 050 World Musics and Cultures
- 030 History of Opera

040 History of the Symphony

075 History of Jazz

Students wishing to learn to read music and gain a knowledge of beginning theoretical topics, as well as those wishing to begin the required theory courses for the major (or the one required course for the music minor) should take MUSC 070, Theory and Musicianship I.

Near Eastern

Languages and Civilizations

www.sas.upenn.edu/nelc/

Near Eastern Languages and Civilizations focuses on the study of the ancient and modern civilizations of the Near/Middle East, addressing the civilizations of Mesopotamia/Iraq, Egypt, Israel, Syria, Arabia, Persia/Iran and Anatolia/Turkey. The program offers broad-based, culturally integrated general education courses on cultures, literatures, religions and history.

The department offers courses in Sumerian, Akkadian, Egyptian, Aramaic, Hebrew, Arabic, Persian and Turkish.

Students interested in a major or minor are strongly encouraged to begin language study as soon as possible.

Non-language freshman seminars appropriate for first-year students include NELC:

- 037 People of Modern Egypt
- 047 Magical Science: Sages, Scholars and Knowledge in Babylon and Assyria
- 066 Lords of the Nile: Rulership and Government in Ancient Egypt
- 152 Jewish Law and Ethics

Additional non-language courses appropriate for first-year students are NELC:

- 009 Critical Writing Seminar in Near Eastern Languages and Civilizations (Topics Vary)
- 032 The Middle East in the 20th Century
- 038 Narrative Journeys: Africa and Asia
- 046 Myths and Religions of the Ancient World
- 049 Myths of Ancient Mesopotamia
- 051 History of Jewish Civilization I

Philosophy

www.phil.upenn.edu/

Philosophy seeks to illuminate fundamental aspects of the world, of our relation to and knowledge of the world and of our own nature as rational, purposive and social beings. A philosophical education is, in large measure, intended to furnish some grasp of what is involved in developing and defending questions and positions of a general and fundamental nature.

A number of generally applicable intellectual skills and habits are cultivated through the study of philosophy: close reading of texts, the extraction of positions and arguments, and the construction and criticism of lines of reasoning. The development of these skills helps equip one for any profession in which creative thought and critical discrimination are called for, including medicine, business, journalism and government and in particular, law.

Courses appropriate for first-year students include PHIL:

- 001 Introduction to Philosophy
- 002 Ethics
- 003 History of Ancient Philosophy
- 004 History of Modern Philosophy
- 005 Formal Logic
- 008 The Social Contract

Philosophy, Politics and Economics

www.sas.upenn.edu/ppel/

This interdisciplinary program allows students to study a variety of comprehensive analytical frameworks developed to understand and justify political and economic structures, particularly constitutional democracy and the market system. It also allows students to examine human behavior using tools that lie at the intersection of psychology, economics and philosophy, using theoretical and laboratory methods. The major prepares its graduates for careers in public policy, public service, business and law. It also offers valuable preparation for graduate study in any of the participating disciplines.

Physics and Astronomy

www.physics.upenn.edu/

Physics and astronomy are fundamental sciences aimed at discovering the basic principles that govern our universe. Physicists study the interplay between space, time, matter and energy. Complex behavior in nature is explained in terms of elementary relations between constituent elements and the forces that bind them. The phenomena examined by physicists occur over distances ranging from subatomic scale (elementary particle physics) to human scale (condensed matter physics and biological physics) to cosmic scale (astrophysics and cosmology). The subject matter of astronomy encompasses the physical universe beyond the Earth: the solar system, stars, galaxies, galaxy clusters and superclusters, quasars and the large-scale structure of the universe. In both physics and astronomy, new instruments and technologies are revealing unexpected phenomena that present exciting scientific challenges.

Courses that are appropriate as an introduction to the major are the PHYS 150/151 sequence. Students who are likely to major in Physics are encouraged to seriously consider the Honors Sequence, PHYS 170/171. The PHYS 101/102 sequence is appropriate for students interested in the biological sciences. Students interested in the Astrophysics concentration are also encouraged to enroll in ASTR 011/012.

The department also offers freshman seminars and other courses that require no previous exposure to physics. Examples include ASTR:

- 001 Survey of the Universe
 - 003 The Solar System
 - 005 Galaxies and the Universe
 - 006 Life in the Universe
 - 007 The Big Bang and Beyond
- and PHYS:
- 016 Energy, Oil, and Global Warming
 - 137 Community Physics Initiative

Political Science

www.ssc.upenn.edu/polisci/

Political Science explores systematic approaches to understanding politics ranging from American political institutions to the politics of various countries or world regions, the study of order and change in international relations, and ancient and modern political thought. These topics are addressed in courses typically classified under the four standard fields of American politics, comparative politics, international relations and political theory.

In addition to freshman seminars, courses appropriate for first-year students include but are not limited to the subfield introductions, PSCI:

- 110 Introduction to Comparative Politics
- 130 Introduction to American Politics
- 150 International Relations in Theory and Practice
- 180 Ancient Political Thought
- 181 Modern Political Thought

In addition, freshmen are regularly admitted to more specialized courses that do not require prerequisites (these include most courses through the 200-level and higher-level seminars where the instructor gives permission to enroll on a case-by-case basis).

Psychology

www.psych.upenn.edu/

The Psychology major is designed to introduce students to our current understanding of how organisms perceive, learn, think and interact with one another, how they develop, how they are motivated and how, individually and as members of a species, they may be compared with one another. The major provides a balanced treatment of the central phenomena in the field, taking into account the methods from which our knowledge is derived and the conceptual frameworks that organize the discipline.

The major program, which divides courses into three subfields—neural, cognitive and social/clinical—is designed to provide a coherent and integrated intellectual experience that can serve as a foundation for advanced graduate work or for careers in many fields, including medicine, law, business or the sciences. All students begin their psychology studies with PSYC 001, Introduction to Experimental Psychology.

Religious Studies

ccat.sas.upenn.edu/rs/

Religion is a complex network of ideas and actions (ethical and ritual) that express a group's sense of the ultimate meaning of life. The academic study of religion examines how the beliefs and values of contemporary and historical cultures shape and are shaped by societal factors, long-standing traditions and distinctive forms of literary and artistic expression. Religion scholars ask not whether certain beliefs are true but what they mean to those who hold them to be true, how they came to have a particular form and content, and what

impact they have on their intellectual and social environments.

Courses appropriate for first-year students include RELS:

- 001 Religions of Asia
- 002 Introduction to Judaism, Christianity and Islam
- 005 Women and Religion
- 006 Religious Cults and Violence

Romance Languages

ccat.sas.upenn.edu/roml/

In this age of global communications and multiculturalism, the study of Romance languages and the ever-evolving cultures they represent is a particularly timely pursuit. The discipline of learning how to communicate in a foreign language not only makes the student able to interact with other cultures but also, because of the comparative and contrastive exercise that language learning entails, sharpens his or her English communication skills as well.

The Department offers studies in Catalan, French, Italian, Portuguese and Spanish.

Science, Technology and Society

hss.sas.upenn.edu/mt-static/stsc/

The structure of the modern world is based on a complex foundation of science and technology. Understanding how science works, how technological innovation happens, and how both relate to larger social, political and economic developments is an essential skill for professionals in almost every occupation.

This highly interdisciplinary program includes courses in the history of science, technology, medicine and related fields in the natural and social sciences. Students acquire both a broad liberal arts education as well as specific preparation for careers in knowledge-based occupations such as law, public policy, business, medicine and journalism.

Courses appropriate for first-year students include STSC:

- 001 The Emergence of Modern Science
- 002 Medicine in History
- 003 Technology and Society
- 010 Health and Societies

Slavic Languages and Literatures

ccat.sas.upenn.edu/slavic/

The Department of Slavic Languages and Literatures offers a major, a minor and a language certificate in Russian. Additionally, with the support of the Penn Language Center, the department offers courses in the Ukrainian, Czech, Polish and Hungarian languages. The department also offers a series of courses for students who have spoken Russian at home and wish to gain literacy and/or improve their language skills or to pursue the study of Russian literature and culture in Russian.

The program is flexible and well suited to students wishing to complement another field of study. The program is also well suited to students preparing for law or medical school, or for those contemplating careers in international business, teaching, governmental and foreign service, or journalism.

Courses offered in English and appropriate for first-year students include RUSS:

- 125 The Adultery Novel In and Out of Russia
- 130 Russian Ghost Stories (Freshman Seminar)
- 145 Russian Literature in Translation I (1800-1870)
- 155 Russian Literature in Translation II (1870-present)
- 165 Russian and East European Film
- 190 Terrorism: Russian Origins and 21st-Century Methods
- 197 Madness and Madmen in Russian Culture

Students with no prior study in the language may consider:

- EEUR 121 Elementary Hungarian
- RUSS 001 Elementary Russian I/II
- SLAV 501 Elementary Polish I
- 530 Elementary Czech I
- 590 Elementary Ukrainian

Students who spoke Russian at home while growing up may consider RUSS:

- 360/361 Literacy in Russian I/I
- 369 Russian Utopia
- 460 Post-Soviet Russia in Film

Sociology

www.ssc.upenn.edu/soc/

The study of sociology provides an understanding of how societies, communities and smaller groups are organized and maintained and how individual behavior is related to group experiences. Sociology introduces students to the concepts and methods that characterize social science research and provides them with the tools for a critical analysis of the varied types of human relations in which all are involved. It also provides a background for careers in teaching, theoretical and applied social research, social work, journalism, demography, criminology, management, law and medicine.

Courses appropriate for first-year students include SOCI:

- 001 Introduction to Sociology
- 004 The Family
- 006 Race and Ethnic Relations
- 010 Social Stratification
- 011 Urban Sociology

South Asia Studies

www.southasia.upenn.edu/

This program offers students a multi-disciplinary exposure to the cultures and languages of India, Pakistan, Bangladesh, Sri Lanka, and Afghanistan and courses related to the South Asian diaspora. The department offers and cross-lists courses in a wide range of disciplines, including history, philosophy, religion, art, music, anthropology, sociology, political science and economics. Penn's South Asia language program is one of the largest in the country, and covers the major classical and modern languages of the subcontinent.

Courses appropriate for first-year students include SAST:

- 002 The City in South Asia (spring)
- 003 India and South Asia: Pre-Modern India
- 005 Performing Arts in South Asia
- 006 Hindu Mythology (spring)
- 052 Indians Overseas: Global View
- 057 Planning to be Offshore

Theatre Arts

www.sas.upenn.edu/theatrearts/

Theatre Arts offers a wide range of courses in all aspects of theatre, including acting, directing, design, playwriting, dramatic literature, theatre history and theories of performance. Students may also receive credit through THAR 350, Rehearsal and Performance, by acting in or working on theatre productions mounted by this program. Theatre Arts welcomes all students to take part in our course and production work, those wishing to major or minor, as well as those who wish to take one or two courses as part of a complete liberal arts education.

Courses appropriate for first-year students include THAR:

- 100 Introduction to Theatre
- 110 Theatre, History, Culture I
- 111 Theatre, History, Culture II
- 125 The Play: Structure, Style, Meaning

The Theatre Arts Program offers two freshman seminars, THAR:

- 120 Fundamentals of Acting (fall and spring)
- 176 Philadelphia Theatre Experience (fall)

Prospective majors with an interest in practical theatre should begin to work in the cast or crew of program-sponsored production activities as soon as they arrive at Penn.

Urban Education (minor only)

www.gse.upenn.edu/degrees_programs/ugprog.php

The Urban Education minor provides students with opportunities to explore the interrelationships between urban issues and educational practice, research and policy in order to work toward equity and excellence in the education of students in city schools. The program reflects current national demands for education professionals to make instructional, curricular, assessment, administrative, policy and research decisions that are not only grounded in understanding of local communities and educational theory but also informed by a liberal arts-based background.

Interested freshmen should begin with URBS 202, Urban Education, as their first course.

Additional courses appropriate for first-year students include:

- PSYC 180 Developmental Psychology
- EDUC 522 Psychology of the African-American
- 513 Development of the Young Child
- 561 Adolescent Development

Urban Studies

www.sas.upenn.edu/urban/

Urban Studies is an interdisciplinary major that offers students an opportunity to think and learn about cities in an informed, disciplined and integrated way. Majors take courses that introduce them to a variety of perspectives on the origins, development and nature of cities. The program stresses the application of theory to practice with an internship for credit in which students work closely with a community group, public agency, non-profit or private organization in the city.

The Urban Studies Program offers two freshman seminars, URBS:

- 100 Homelessness and the Urban Crisis (fall)
- 110 Crime and Punishment (spring)

Additional fall courses appropriate for first-year students include URBS:

- 078 Urban University–Community Relations
- 103 Emerging Industrial Metropolis
- 112 Urban Sociology
- 139 Ancient Civilizations of the World
- 202 Urban Education

Additional spring courses appropriate for first-year students include URBS:

- 101 Origins and Cultures of Cities
- 104 The Urban Crisis
- 202 Urban Education
- 210 The City
- 214 Race and Ethnic Relations
- 250 Urban Public Policy
- 252 Urban Journalism

Visual Studies

www.arthistory.upenn.edu/vlst/

We live in an increasingly visual culture. The visual studies major prepares students for acting in and interpreting this culture through a multidisciplinary course of study, connecting the theory, practice and culture of seeing. The major serves as a liberal arts preparation that develops visual literacy, studio skills and knowledge of visual science and visual theory. It provides strong and distinctive preparation for continuing on to graduate or professional training in several fields, including philosophy, perceptual psychology, history of art, fine arts and architecture.

Courses appropriate for first-year students include VLST:

- 101 Eye, Mind and Image
- 102 Two Dimensions: Form/Meaning
- 103 Three Dimensions: Time/Space

The electives are all courses not in the major, including the courses required to fulfill the Foundational Approaches, the Sector Requirement and the Free Electives.

Credits needed for Graduation A - H

c.u. needed for:	major	electives	GRADUATION
African Studies	12	20	32
Africana Studies	12	20	32
Anthropology	14	20	34
Architecture	16	20	36
Biochemistry	18	18	36
Biological Basis of Behavior	18.5	17.5	36
Biology*	16	20	36
Biophysics	20	16	36
Chemistry	17	19	36
Cinema Studies	13	20	33
Classical Studies	12	20	32
Cognitive Science	16	20	36
Communication	14	20	34
Comparative Literature	14	20	34
Criminology	14	20	34
East Asian Area Studies	12	20	32
East Asian Languages and Civilizations	14	20	34
Economics	12	20	32
English	12	20	32
Environmental Studies	15	20	35
Fine Arts	16	20	36
French Studies	12	20	32
Gender, Culture and Society	13	20	33
Geology	15	20	35
Paleo-Biology	18.5	17.5	36
German	12	20	32
Health and Societies	14	20	34
Hispanic Studies	12	20	32
History	12	20	32

* Some concentrations in this major will require more than this number of c.u. to complete; in these cases fewer electives will be required, but the total graduation requirement will remain 36 c.u.

Credits needed for Graduation H - V

c.u. needed for:	major	electives	GRADUATION
History of Art	13	20	33
Individualized Major	14	20	34
International Relations	12	20	32
International Studies (Huntsman Program)	14	20	34
Italian Studies	12	20	32
Jewish Studies	14	20	34
Latin American and Latino Studies	12	20	32
Life Sciences and Management (see program website, www.upenn.edu/lsm/)			
Linguistics	14	20	34
Logic, Information and Computation	18	18	36
Mathematics	13	20	33
Modern Middle East Studies	12	20	32
Music	14	20	34
Near Eastern Languages and Civilizations	14	20	34
Philosophy	12	20	32
Humanistic Philosophy	16	20	36
Philosophy and Science	16	20	36
Philosophy, Politics and Economics	16	20	36
Physics and Astronomy*	17.5	18.5	36
Political Science	12	20	32
Psychology	13	20	33
Religious Studies	12	20	32
Romance Languages (Two languages)	18	18	36
Science, Technology and Society	14	20	34
Slavic Languages and Literatures (Russian)	12	20	32
Sociology	14	20	34
South Asia Studies	12	20	32
Theatre Arts	14	20	34
Urban Studies	14	20	34
Visual Studies	15	20	35

* Some concentrations in this major will require more than this number of c.u. to complete; in these cases fewer electives will be required, but the total graduation requirement will remain 36 c.u.

POLICIES AND PROCEDURES

Rules and regulations change over time, and as they do, so will the College website. It is recommended that students keep this handbook throughout their undergraduate careers. It will serve as the official record of the policies in place at the time of matriculation into the College.

For a directory of policies and procedures, see www.college.upenn.edu/policies/.

GENERAL POLICIES

Class Standing

A student's class standing is determined according to the number of course units a student has accumulated. In addition to course work taken at Penn, this will include A.P. credit, transfer credit from other institutions and credit issued for departmental examinations. Course work in progress also will be taken into consideration in determining a student's classification for Advance Registration for a future term.

For students in the College, the classification is as follows:

Freshman: less than 8.00 c.u.

Sophomore: from 8.00 - 15.99 c.u.

Junior: from 16.00 - 23.99 c.u.

Senior: from 24.00 c.u.

Academic Recognition

Dean's List

The Dean's List citation is awarded annually to any student who, during the academic year from September to May, achieves a g.p.a. of 3.7 or higher, provided he or she has completed 6 or more c.u. for letter grades, has received no grades lower than C and no Incompletes during these two semesters, and has not been subject to disciplinary action. The Dean's List notation appears on the transcript.

Latin Honors

Latin Honors are awarded to those graduating seniors who have achieved a cumulative grade point average at or above each of three levels:

3.80 or higher: summa cum laude

3.60 to 3.79: magna cum laude

3.40 to 3.59: cum laude

Phi Beta Kappa

The Delta Chapter of Phi Beta Kappa was founded at the University of Pennsylvania in 1892. The Electoral Board meets every spring to elect new students who have distinguished themselves through undergraduate research and by breadth of study in the liberal arts. For details about qualifications, see www.college.upenn.edu/honors/pbk.php.

Honors in the Major

Students with a minimum g.p.a. of 3.0 may apply to their department or program for acceptance as honors majors. (Some majors require higher g.p.a.) Applications for major honors are usually taken in the first semester of the junior year.

The requirements for honors majors vary from program to program and may include special courses and individual research on specialized subjects under the guidance of a faculty advisor. In some departments additional credit is authorized for work done by honors candidates.

Students who complete an honors major will have this designation entered on their transcript.

Athletic Eligibility

Like all student-athletes at Penn, College athletes must meet certain academic eligibility standards set by both the NCAA and the University.

In order to be fully eligible to compete in inter-collegiate athletics, students must keep their g.p.a. at or above a 2.0 and complete a minimum of 8 courses per academic year. Students whose academic performance falls below these standards may retain eligibility to compete by submitting an Academic Enhancement Plan. Student-athletes enrolled in the College are also required to have a declared major by the beginning of their junior year.

Dr. Alice Kelley in the College Office is the academic eligibility officer.

Course Problem Notices

When the work of a student in a given course becomes unsatisfactory for any reason, the instructor may send a Course Problem Notice email to the student. This notice will indicate the nature of the problem and suggest an appropriate person for the student to meet with, including the instructor, a teaching assistant, or an academic advisor. Students are expected to follow the recommendations made in these notices. The College Office also receives copies of all notices sent to College students.

Academic Standing / Probation

The College expects all of its students to maintain good academic standing, which is defined as follows:

- The student must maintain a term and cumulative g.p.a. of 2.00 or higher.
- The student may not earn more than one incomplete or F in a given semester.
- The student must complete at least a total of 6 c.u. over a period of two consecutive semesters (summers not included).

General Academic Probation

Students who do not fulfill these criteria will be placed on General Academic Probation.

Students on General Academic Probation are required to see their academic advisor once a month while they are on probation.

While on General Academic Probation, students must complete exactly 4 course units on time, with no grades of F, I, GR, or NR and no more than one pass/fail course. In addition, students on General Academic Probation must achieve a minimum g.p.a. of 2.00 for that semester.

Students who fail to return to good standing within one semester may be placed on Deferred Drop Probation.

Deferred Drop Probation

Students who fail to meet the requirements for recovery from General Academic Probation as specified by the Committee on Undergraduate Academic Standing, or whose academic semester g.p.a. is below 1.70, are placed on Deferred Drop Probation.

Students on Deferred Drop probation must achieve a minimum g.p.a. of 2.00 for that semester. If they do not, they may be Dropped from the Rolls.

In addition, all other rules pertaining to General Academic Probation apply to Deferred Drop.

Incompletes Probation

Students with multiple Incompletes may be placed on this type of probation.

Students who accrue multiple Incompletes may also be placed on a mandatory leave of absence.

In addition, all other rules pertaining to General Academic Probation apply to Incompletes Probation.

Dropped from the Rolls

Students may be Dropped from the Rolls by the Committee on Undergraduate Academic Standing if they receive two or more F's in a given semester, or if they fail to meet the terms of recovery from General Academic Probation, Deferred Drop or Incomplete Probation.

Students who have been dropped from the rolls are required to take a mandatory year off from Penn. They may not receive credit at Penn for courses taken at another institution during the term of the drop.

Students who have been dropped will be eligible for readmission after one full (calendar) year; a second drop is permanent.

Readmission After Drop

A student in the College who has been dropped for scholastic deficiencies will not be considered for readmission within the calendar year following dismissal. At the end of the term of the drop, the student may apply to the College Office for readmission. All applications and supporting materials for readmission must be submitted by August 1 for the fall semester and December 1 for the spring semester.

Leave of Absence

Requesting a Leave of Absence

Students wishing to take a leave of absence should speak to an advisor in the College Office before submitting their request. This request must be submitted in writing. Discontinuance of study without permission from the University does not constitute a leave of absence. If students request a leave after the beginning of the semester, normal drop and withdrawal deadlines apply.

Additional Requirements for Medical Leave

Students requesting a leave of absence for medical reasons must provide proper documentation at the time of the leave request. Students will only be allowed to take a leave of absence after the withdrawal period (tenth week) with proper medical documentation.

Additional Requirements for Mandatory Leave

Students who accumulate two or more incomplete grades in a given semester may be placed on a mandatory leave of absence by the Committee on Undergraduate Academic Standing until such work is finished.

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It is the student's responsibility to respond appropriately to any warnings sent by professors and to seek help when necessary. See www.college.upenn.edu/support/ on the College website for suggested resources, or speak with a College advisor.

Students on mandatory leave of absence may not receive credit at Penn for courses taken at another institution during the leave.

Return from Leave

When a student wishes to return from a leave of absence, she or he must submit a written request to return at least one month prior to the start of the desired term (August 1 for the fall term, December 1 for the spring term)

Additional Requirements for Medical Leave

Students who request a medical leave of absence may be required to obtain clearance from a treating physician before any return from leave is granted.

Additional Requirements for Mandatory Leave

Students wishing to return from a mandatory leave of absence must have final grades posted for any prior incomplete work before the start of the semester in which they intend to enroll. Additional conditions for return from mandatory leave may be stipulated by the Committee on Undergraduate Academic Standing.

Withdrawal from the University

A student who wishes to withdraw from the University must inform the College Office in writing. If a student withdraws after the fifth week of the semester, all course grades from that semester will be reported on the transcript as W (withdrawal).

Tuition Refund

A student who withdraws from the University (or who is requested to withdraw for failure to maintain a satisfactory scholastic standing) or who is granted a leave of absence from a full-time division of the University during either term of the academic year will be eligible for a reduction in tuition and fees in accordance with this schedule:

- 75% Request within the first two weeks of class
- 50% Request within the third and fourth weeks of class
- 0% Thereafter.

The effective date of separation from the University is the date the student files a written request for withdrawal or leave of absence.

A student who is required to withdraw because of a violation of University regulations shall receive no tuition refund.

In the case of students receiving financial aid, eligibility for the term will be predetermined based on actual charges and prorated allowances for living expenses.

For rules regarding reductions in residence and meal contract charges, see the current year's residential handbook and the terms and conditions of meal plans.

Transfer Within the University

Students who wish to apply for an internal transfer to any of the four undergraduate schools should meet with an advisor in their home school as well as an advisor of the school they wish to enter. Students must indicate what course of study they plan to pursue in the new school. A transfer request must be filed through the student's home school advising office; the request is sent to the other school for consideration.

Students are not eligible for transfer until they have completed 8 c.u. (or two semesters, whichever comes later) at Penn.

Students applying for internal transfer must be in good academic standing in their home school and should have no NR's, GR's or I's on their record.

Students should be aware that the Wharton School requires a 3.4 minimum g.p.a. for transfers, though students should have closer to a 3.7 g.p.a. in order to be competitive. However, very few students will be accepted for transfer into the Wharton School. Those students wishing to transfer into Wharton must do so by the end of their sophomore year and must have completed ECON 001 and 002 and MATH 104 by the end of the freshman year and ACCT 101/102 and STAT 101/102 by the end of the sophomore year. Engineering and Nursing are more flexible.

Applications for internal transfer will not normally be considered after the end of the sophomore year.

POLICIES GOVERNING THE CURRICULUM AND REQUIREMENTS

www.college.upenn.edu/curriculum/2010/

Foundational Approaches

With the exception of the Foreign Language Requirement, none of these requirements may be satisfied with Advanced Placement credit (including A.P., I.B. and A-Levels, and other similar credit based on external examination).

Courses taken to satisfy Foundational Approaches may also be used to satisfy the Major Requirement, pending approval by the major department or program.

Non-College courses approved for the Foundational Approaches are considered equivalent to College electives.

Courses taken to satisfy these requirements must be taken for a letter grade, not pass/fail.

Each of the requirements that make up the Foundational Approaches is satisfied by taking a single course from a Database of Requirement Courses (fusion.sas.upenn.edu/col/genreq/index.php), with the possible exception of the Foreign Language Requirement (which may require from 0 to 4 courses depending on the student's background in the given language).

Writing Requirement

Students can fulfill the Writing Requirement in one of several ways:

- By taking one Critical Writing seminar. Writing seminars focus on the development of writing skills in the context of a particular discipline. Information about writing seminars is available on-line, in the Writing Program brochure sent to freshmen in the summer and in its spring supplement published in October.
- By enrolling in the year-long Collaboration and Research Writing seminar, COLL 009, designed for upperclassmen and focusing on a research writing projects
- By enrolling in ENGL 011, Writing for International Students, designed for multilingual students who need practice reading and writing in English.
- By enrolling in ENGL 125, Writing the Essay (designed for upperclassmen). Freshmen are admitted to ENGL 125 by permission only.

The Writing Requirement can only be satisfied by courses taken at Penn. A.P. credits cannot be used to fulfill the Writing Requirement.

Writing seminars may not be used to fulfill any other College requirement.

Courses taken to satisfy the Writing Requirement must be taken for a letter grade, not pass/fail.

Students must earn a minimum grade of C- in courses taken to fulfill the Writing Requirement.

Foreign Language Requirement

The Foreign Language Requirement may be satisfied in a variety of ways at the discretion of the language department or group concerned:

- By passing an examination administered by the language group. In some instances, students will take the examination after completing 4 c.u. (or the equivalent) of study.
- By obtaining a minimum grade of C- in the language's fourth semester-level course (see the chart at www.college.upenn.edu/curriculum/policies/competency.php for final courses in the competency sequence).
- As a result of achieving the required score on:
 - An Advanced Placement test administered in a foreign language by the Educational Testing Service (ETS)
 - An S.A.T. II foreign language test administered by the ETS
 - A departmental placement test
 - The Cambridge A-level examination (at a grade deemed satisfactory by the language group), or
 - In the case of a bilingual student, a special test given by the appropriate department.

The determination of competency varies from department to department and between language groups within a department. It is the student's responsibility to learn how the requirement is satisfied in the language selected.

Pre-College credit, transfer credit, credit away and credit earned studying abroad only count toward the Foreign Language Requirement when the department assigns the course a number identical to the number of a Penn course approved for the requirement.

Foreign Language Requirement courses may not be used to fulfill any other College requirement.

Courses taken to satisfy the Foreign Language Requirement must be taken for a letter grade, not pass/fail.

For a database of courses fulfilling College requirements, see www.fusion.sas.upenn.edu/col/genreq/.

For a listing of final courses in the Foreign Language Requirement competency sequence, see www.college.upenn.edu/language/competency.php

Language Requirement Substitution

Students who have a documented disability that precludes learning a foreign language may petition the Committee on Undergraduate Academic Standing for permission to satisfy the Penn Language Requirement with courses other than those in a foreign language. Students considering petitioning should first consult with one of the disability specialists in the Office of Student Disability Services, then see Dr. Alice Kelley in the College Office as they assemble their dossier. Such petitions must be initiated by the end of the first semester of the sophomore year. If the petition is granted, the student will be obliged to fulfill an alternative requirement, which will be formulated on a case-by-case basis. This requirement is intended to provide a balance between a theoretical understanding of language and a more intimate acquaintance with life in a single foreign society as revealed through its literature and civilization.

Quantitative Data Analysis Requirement

Courses that satisfy this requirement may also be used to satisfy other College requirements (except for the Writing and Foreign Language Requirements) as well as Major Requirements.

The Quantitative Data Analysis Requirement can only be satisfied by courses taken at Penn.

College students who complete a dual degree program in Wharton will be exempt from the Quantitative Data Analysis Requirement. However, if a student withdraws from the Wharton program, he or she will have to satisfy the requirement in the normal way.

Courses taken to satisfy the Quantitative Data Analysis Requirement must be taken for a letter grade, not pass/fail.

Students must earn a minimum grade of C- in courses taken to fulfill the Quantitative Data Analysis Requirement.

Formal Reasoning and Analysis Requirement

A course used to satisfy the Formal Reasoning and Analysis Requirement may be double-counted with other requirements in the General Education Curriculum (except for the Writing and Foreign Language Requirements) as well as with the Major.

Pre-College credit, transfer credit, credit away and credit earned studying abroad only count toward the Formal Reasoning and Analysis Requirement when the department assigns the course a number identical to the number of a Penn course approved for the requirement.

Students who receive A.P. credit in Calculus (BC) and who take any course at Penn that has calculus as a prerequisite or co-requisite may use that course to fulfill the Formal Reasoning and Analysis Requirement.

Courses taken to satisfy the Formal Reasoning and Analysis Requirement must be taken for a letter grade, not pass/fail.

Cross-Cultural Analysis Requirement

A course used to satisfy the Cross-Cultural Analysis Requirement may be double-counted with other requirements in the General Education Curriculum (except for the Writing and Foreign Language Requirements) as well as with the Major.

Courses taken to satisfy the Cross-Cultural Analysis Requirement must be taken for a letter grade, not pass/fail.

Sector Requirement

To satisfy the Sector Requirement, students must take one course in each of the sectors. Sector VII may be satisfied by taking one course from the Sector VII list or an additional Living World or Physical World course.

Students may double-count no more than one course between the Major and the Sector Requirement. Biological Basis of Behavior and Biology majors may double-count two courses between the Major and the Sector Requirement: one each in the Living World and Physical World sectors. Students who are double-majoring may double-count two courses between the Majors and the Sector Requirement, one from each major.

Courses taken to fulfill the Sector Requirement must be taken for a letter grade, not pass/fail.

Non-College courses approved for the Sector Requirement are considered equivalent to College Electives.

Courses designated in the *Course Timetable* and the *Course Register* as "Distributions" may not be used to satisfy the Sector Requirement.

Advanced Placement and Other Equivalent Credits

The Sector Requirement may not be satisfied with Advanced Placement credit (including A-Levels, I.B., and other similar credit based on external examination).

Students who receive an Advanced Placement credit or waiver in a Living World or Physical World field (Physics B or C, Chemistry and

Biology, Environmental Science or Psychology) and who take an additional course at Penn in that subject, may use the additional course to fulfill the relevant sector. In Psychology, the additional course must have an odd number.

Students who receive an Advanced Placement waiver for ECON 001 and who take any other Economics course at Penn may use the additional course to fulfill the Society Sector.

Pre-College credit, transfer credit, credit away and credit earned studying abroad only count toward the Sector Requirement when the department assigns the course a number identical to the number of a Penn course approved for the requirement.

Seminar Courses

Most freshman seminars are approved for a particular sector within the Sector Requirement.

No more than one freshman seminar may be used to fulfill the Sector Requirement.

Two Benjamin Franklin seminars or one Benjamin Franklin seminar and one freshman seminar may be used in the Sector Requirement.

Major Requirement

The minimum qualification for acceptance into a major program is a g.p.a. of 2.0 in those major and major-related courses that a student has already taken. Some majors require a higher average as well as specific coursework taken before the time of application.

Only the department or program in question can make exceptions to the regulations governing a major program.

Only the department or program advisors determine which credits transferred from another institution can count toward the major at Penn.

All courses taken for a major must be taken for a grade (i.e., they cannot be taken pass/fail).

Students pursuing two majors must take at least 18 different courses in fulfillment of major requirements.

At least one-half of the courses in the major must be taken at Penn. Some departments require more than this.

No more than one course may be double-counted between each major and the Sector Requirement.

Biological Basis of Behavior or Biology majors may double-count two courses between the major and the Sector Requirement, one each in the Living World and Physical World Sectors.

Double Majors

Students who wish to double-major may do so by applying for, and completing the requirements for, each major. Students interested in double majoring should consult with their pre-major advisor.

Students who are double-majoring must have 18 unique c.u. between the two majors. Students who are triple-majoring must have 24 unique c.u. among the three majors. Major departments may have additional rules limiting such double-counting.

The total graduation requirement for a student who is double-majoring is calculated by adding 20 to the number of c.u. required for the larger major (maximum of 36 c.u.).

Free Electives

A maximum of 8 c.u. of Free Electives may be taken on a pass/fail basis, though normally it is not recommended that students take this many pass/fail courses (two or three is more typical).

Double-Counting Requirement Courses

Double-counting refers to the practice of using one course to satisfy more than one requirement. The course must be one that has been approved for both requirements. Students should be aware that the policies governing double-counting vary from requirement to requirement (and from department to department, in the case of majors).

Graduation Requirements

Degree Requirements

Students must fulfill all the requirements of their curriculum. At the beginning of senior year, students should confirm that their worksheet on Penn InTouch is updated and accurate.

Credits for Graduation

The total number of credit units required to complete a major varies from major to major but is never less than 12. In addition to the major, a student must normally complete 20 c.u. of electives. Students whose majors require more than 16 c.u. may take correspondingly fewer electives. Students may take additional courses if they wish, and many do. See pages 48-49 for the credits required for graduation.

The specific rules that govern each major are those in effect at the time the student declares the major.

For more on the College's graduation requirements, see www.college.upenn.edu/seniors/requirements.php.

Grade Point Average

Students must maintain a 2.0 overall grade point average, and a 2.0 (or better, depending on the department) in major courses.

Application for Graduation

An Application for Graduation must be submitted prior to the semester of expected graduation. Seniors must adhere to a graduation schedule prepared each year by the College Office. A late fee will be charged for failure to apply for graduation by the date specified.

Check the application timeline for May, August and December graduation. It is the student's responsibility to be aware of upcoming deadlines, including the deadline for completion of the graduation application.

Major Certification

Each department, interdepartmental major committee, or individualized major advisor will certify major students as having met the requirements for the respective majors.

Residency Requirement

At least four semesters of full-time study must be completed in Philadelphia while enrolled at the University of Pennsylvania. The value of the Penn experience lies not only in courses taken but also in participation in the life of the University community both in and outside the classroom. Students must also be registered for their last two semesters at the University, including registration through its approved programs for study elsewhere. No student may graduate with a B.A. from the University of Pennsylvania unless he or she has completed at Penn at least one-half of the total number of required course units. He or she must also complete at Penn at least one-half of the courses required for his or her major.

Petitions

It is possible that students who are waiting for a decision from the Committee on Undergraduate Academic Standing on a petition submitted regarding graduation requirements may not be cleared in time for graduation. It is important to submit any necessary petitions as early as possible.

POLICIES GOVERNING REGISTRATION, COURSES AND GRADES

Registration Holds

A registration hold may be placed on a student's record that will prevent the student from registering until action has been taken to resolve the issue. If students are unable to register using Penn InTouch, it is their responsibility to contact the College Office or other relevant office promptly to determine the cause of the problem and resolve it in a timely manner.

Any of the following circumstances may prevent a student from accessing Penn InTouch and registering for courses:

- A freshman or a first-semester sophomore has not seen their pre-major advisor to discuss registration.
- A second semester sophomore, a junior or a senior has not declared a major.
- A student has an unpaid bursar bill. Contact Student Financial Services.
- Student Health Services does not have up-to-date insurance and immunization records.

Other types of registration holds

Departmental Hold: Certain departments require their majors to meet with a major advisor at points throughout their academic careers. The hold is removed by the department after the student has met with his or her advisor.

Judicial Hold: A judicial hold is the result of some judicial action or inquiry concerning the student. The student will be barred from registering until the hold is cleared and should contact the Office of Student Conduct, 215.898.5651 for more information.

Course Selection

Students may seek to add a class until the end of the second full week of the semester (the end of the Course Selection period). (Language classes under the 200 level and Writing Seminars may be added only until the end of the first full week of classes.) The Course Selection period allows students to visit classes before finalizing their schedules, but students are expected to attend all classes they may wish to add in order to keep up with assignments and material. Even during this period, instructors may choose to grant admission only to students who have been attending regularly.

Dropping a Course

Students may drop a class before the end of the first five weeks of the semester by using Penn InTouch. Failure to attend a course does not automatically result in being dropped from the course. Courses that are dropped will no longer appear on a student's transcript.

Withdrawal from a Course

Students may withdraw from a course through the tenth week of the semester with the permission of the instructor. After the tenth week, students must petition the Committee on Undergraduate Academic Standing to withdraw from a course. Such petitions will not be granted without documentation of extenuating circumstances. Withdrawals are indicated on the student's transcript by a report of W and will not affect the student's grade point average.

Students wishing to withdraw from a course must meet with an advisor in the College Office and pick up a Withdrawal form.

Retaking a Course

Students who receive an F in a course may take the course for a new grade. The new grade, as well as the F, will be tabulated into the final g.p.a. and a course unit will be awarded if the student receives a passing grade. If a student fails a course that is required for a major, he or she should think carefully before taking the course again, since poor performance in an introductory course may indicate a need to consider another major.

If a student re-takes a course for which he or she has received a passing grade (including a P in a pass/fail course), the new grade will not be tabulated into the final g.p.a. nor will course credit be given. Some students opt to repeat a course in order to demonstrate their ability to achieve a better grade. The second grade will be recorded on the transcript, but it will not be counted in the student's cumulative average, and no additional credit will be awarded for it.

Please note: A few courses offered at Penn are sufficiently alike that the College will not grant credit for both if both are taken. These include (but are not limited to):

- ECON 102 (Macroeconomic Theory) and FNCE 101
- STAT 111 and 101, and MATH 114 and 115.

Students should check with a College advisor if there are any questions.

Courseload

College students are limited to 5.5 c.u. per semester. First semester freshmen are limited to 4.5. (Outstanding science students may request permission to register for two laboratory sciences in their first semester.)

Special Circumstances

Probation

Students placed on probation are required to limit their rosters to 4 or 4.5 c.u. per term.

Full-time with 3 c.u.

In extenuating circumstances, students may elect to take only 3 c.u. Special permission is not needed. Full tuition is charged. However, students considering 3 c.u. should consider carefully the risks of being enrolled in fewer than four courses (below).

Part-Time Status for Seniors

College students are normally enrolled on a full-time basis. Bills are not normally adjusted when a student takes less than a full load of courses.

Seniors planning to be part-time students (i.e., carrying less than 3 c.u.) in their final semester must meet with an advisor in the College Office as well as their major advisors before the beginning of that semester (ideally during the Advance Registration period for the term in question). The advisors can help a student verify that he or she needs only one or two credits to graduate. Part-time status must be declared before the beginning of the term in question.

Note: Part-time billing status is *not* automatically implemented when a student enrolls in only one or two courses. The College must be notified of the student's decision to be part-time. No request for part-time billing may be made after the first day of spring semester classes.

The Risks of Being Enrolled in Fewer than Four Courses

Students should understand that failure to enroll in at least 4 c.u., or dropping or withdrawing below that number of credits, may have adverse affects in a variety of circumstances. The most common concerns are for:

- Athletes: The NCAA requires that all student athletes complete 8 c.u. per year; carrying less than a full load may jeopardize athletic eligibility. Dr. Alice Kelley is the College's athletic eligibility officer.

See the University's complete policy on holidays at www.vpul.upenn.edu/osl/holidays.html.

- *International students:* The visas that allow most international students to study in the U.S. require carrying a full load of at least 4 c.u. per semester. Any reduction in that number may call their visa status into question. The Office of International Programs can provide more information.
- *Students with financial aid:* Many aid packages require that the student complete an average of 4 c.u. per semester. Carrying less than this amount may cause the student to lose some or even all of his or her financial aid. Call the Student Financial Services office for more information.
- Students should always speak with an academic advisor before any action is taken that would cause the student to earn less than 4 c.u. in a given term.

Auditing a Course

College students may not register for courses as auditors during the academic year. However, with the approval of the instructor they may sit in on courses offered in the University. These courses will not appear on the student's record. Some departments do not allow this type of informal audit.

Attendance

Some professors and departments are very strict about class attendance; others do not consider it part of the grading system. If the instructor thinks a student has an excessive number of absences, the student may be placed on course probation. Some departments, the foreign languages in particular, have very precise rules for attendance.

If a student must miss class at the start of the semester, he or she should notify the College Office and the professor as soon as possible. Athletes who miss work because of athletic obligations must also make up any missed work.

If a student is ill or must leave campus and cannot attend class, he or she should call the College Office (215.898.6341) as soon as possible. If the student provides proper documentation of the illness, the student's professors will be notified by a representative of the College Office.

Failure to attend a class for which one is registered does not automatically result in being dropped from the class. Students should check Penn InTouch before the end of the Course Selection Period and by the Drop deadline each semester to verify their roster.

Holidays

The University recognizes/observes the following holidays: Martin Luther King, Jr. Day, Memorial Day, July 4, Labor Day, Thanksgiving and the day after, and New Year's Day.

The University also recognizes that there are several religious holidays that affect large numbers of University community members, including Christmas, Rosh Hashanah, Yom Kippur, the first two days of Passover and Good Friday. In consideration of their significance for many students, no examinations may be given and no assigned work may be required on these days. Students who observe these holidays will be given an opportunity to make up missed work in both laboratories and lecture courses. If an examination is given on the first class day after one of these holidays, it must not cover material introduced in class on that holiday.

Final Examinations

- No instructor may hold a final examination nor require the submission of a take-home final exam except during the period in which final examinations are scheduled; when necessary, exceptions to this policy may be granted for postponed examinations. No final examinations may be scheduled during the last week of classes or on reading days.
- No student may be required to take more than two final examinations on any calendar day during the period in which final examinations are scheduled. If more than two are scheduled, the student may postpone the middle exam. If a take-home final exam is due on a day when two final examinations are scheduled, the take-home exam shall be postponed by one day.
- Examinations that are postponed because of conflicts with other examinations, or because more than two examinations are scheduled in the same day, may be taken at another time during the final examinations period if the faculty member and student can agree on that time. Otherwise, they must be taken during the official period for postponed examinations.
- Examinations that are postponed because of illness, a death in the family, or some other unusual event, may be taken only during the official periods: the first week of the semester following the course. Students must obtain permission from their dean's office to take a postponed exam. Instructors in all courses must be willing to offer a make-up examination to all students who are excused from the final examination.

- No instructor may change the time or date of a final exam without permission from the appropriate dean.
- No instructor may increase the time allowed for a final exam beyond the scheduled two hours without permission from the appropriate dean.
- No classes (excluding review sessions) may be held during the reading period.
- Final examinations for College of General Studies courses must be given on the regular class meeting night during the week of final examinations.

Grading System

The policies below apply only to College students. Students taking courses in other schools within the University will be graded according to the policy of those schools.

Letter grades ranging from A+ to F (with no D-) are used to report the standing of a student upon the completion of each course.

Additional Grade Types

P (Pass): The pass awarded in a pass/fail course is not used in the computation of the grade point average, but does confer credit.

W: indicates an approved withdrawal from a course.

The following grade designations are not permanent, i.e., students will not be graduated until these grades have been resolved:

S and U (Satisfactory and Unsatisfactory Performance): S and U are used to indicate the level of performance after the first semester in a two-semester course for which the grade is given after the second semester.

GR: This notation often indicates that a student never attended class or never formally dropped the class, but his or her name still appears on a grade sheet. Students with a GR must clarify their status with the professor. A student may not graduate with a GR on the transcript.

NR: This notation indicates that no grades have been submitted for a particular course.

I (Incomplete): A report of "I" indicates that a student's work in a course is incomplete with the instructor's permission. (See below for more on Incompletes.)

Pass/Fail

In registering for courses, students may choose between normal grading status (receiving a letter grade) and pass/fail.

In courses taken on a pass/fail basis, a passing letter grade (any grade above an F, including D) assigned by the instructor is converted to P by the Registrar's Office and entered on the student's transcript. P is not calculated into the cumulative average, but an F is entered as a O.O and does affect the grade point average.

Courses taken to fulfill any College, major or minor requirement cannot be taken pass/fail.

College students may take no more than 8 c.u. of coursework pass/fail, though advisors generally recommend against this many.

Incompletes

The decision as to whether to grant an Incomplete or not is solely that of the faculty teaching the course.

If the work for a course is incomplete as a result of the student's unexplained failure to hand in assigned work or to take the final examination at the regularly scheduled time, the instructor will issue a grade of F for the course.

Instructors deciding to grant an extension to students who have not completed a course at the end of the semester may grant either a short Incomplete (I) or a long Incomplete (II). The short Incomplete must be made up within the first four weeks of the next regular semester in which the student is enrolled (summer sessions excluded). The long Incomplete must be made up by the end of the next regular semester in which the student is enrolled (summer sessions excluded). In either case, if the Incomplete is not made up by the deadline, it will become an F. The Incomplete is made up only when the official grade is received by the College Office. After a grade is converted to an F, the instructor may choose to change it.

According to University-wide regulations, instructors in all courses must offer a make-up examination to all students who received their permission to be absent from the regularly scheduled final examination. Postponed examinations are normally held during the first week of the semester following the course.

A student will not be graduated until all Incompletes are converted to a letter grade.

The Incomplete designation may not be used to allow a student to repeat the course in a subsequent semester. If a student must repeat a

course in order to complete the work for it, the instructor will assign a grade of F for the initial semester and the student will need to re-register for the course for credit in a subsequent semester. In some cases, the Committee on Undergraduate Academic Standing may permit a student to withdraw retroactively from the course by petition.

A Warning About Incompletes

Students should be aware that receiving Incompletes can be problematic for a variety of reasons:

- Because they affect the number of credits earned in the short term, Incompletes can have an impact on financial aid, athletic eligibility or visa status for international students.
- Students who receive an Incomplete are rendered ineligible for the Dean's List, even if their academic qualifications would have otherwise been sufficient.
- Students with multiple Incompletes may be placed on academic probation or even on a mandatory leave of absence. This leave of absence prevents students from re-enrolling at Penn until all of the incomplete coursework has been finished and those courses' grades reported. This frequently entails at least one semester off from school.
- Students often find that incomplete coursework from previous semesters is very difficult to finish when they also have a new roster of courses to focus on.

In general, it is a far better idea to plan ahead, use advising and academic support resources, and take other steps to ensure finishing on time. Incompletes should be requested sparingly, if at all.

Changing a Grade

The instructor who gives an evaluation, exam or course grade has sole authority for changing such evaluation, exam or course grade provided the instructor remains on the faculty (or the emeritus faculty) of the University of Pennsylvania.

In cases in which faculty appointments have terminated, or faculty have resigned or are deceased, sole authority for changing an evaluation rests with the undergraduate chair of the relevant department.

Once a grade from A+ to F has been entered on a student's transcript and has remained for one semester, it is considered permanent and changes will not ordinarily be permitted.

Grade Point Average

Grade point averages (g.p.a.'s) are tabulated at the end of each semester and are established on a scale in which:

A+ = 4.0	A = 4.0	A- = 3.7
B+ = 3.3	B = 3.0	B- = 2.7
C+ = 2.3	C = 2.0	C- = 1.7
D+ = 1.3	D = 1.0	(There is no D-)
F = 0.0		

The g.p.a. is calculated by multiplying the credit units for each course (usually 1 c.u.; 1.5 c.u. for science and lab courses) by the numerical equivalent of the grade received. The total for all courses is then divided by the total number of credit units taken.

Averages are tabulated for each semester and on a cumulative basis.

Students may calculate the g.p.a. for a selected group of courses (major or minor courses, for example) by using the "g.p.a. calculator" function of the Penn InTouch Academic Worksheet.

Course Problem Notices

Students who are having difficulty in a particular course may receive a Course Problem Notice from their instructor. See page 50.

College of General Studies Courses

The College of General Studies (CGS) is a division of the School of Arts and Sciences (SAS). CGS administers SAS's programs for adult, professional and part-time students, and offers late-afternoon, evening and Saturday courses at the undergraduate, post-baccalaureate, and graduate levels. In some cases, full-time undergraduates in the College may use CGS courses to fulfill degree requirements.

Graduate Courses

Courses numbered 500-599 are designed as mixed courses primarily for graduate students. Permission of the instructor is required for registration by undergraduates in these courses; however, registration for courses numbered 600 and above requires permission of the instructor, a letter from the chair of the department in which the course is offered, and the endorsement of the Dean of the College.

Non-College Courses

Some majors and minors in the College involve significant coursework from other schools.

In the case of majors such as Fine Arts or Architecture, all non-College credits accepted by the major will apply to the degree.

Any credits not used in the major are considered electives. Students are normally required to take 20 c.u. of electives (see the chart on pages 48-49). In order to satisfy College degree requirements, students must complete at least 16 c.u. of electives in the College. (Students admitted to a dual-degree program are required to complete at least 14 c.u. of College electives.)

Students should note that in some cases this may mean that less than four non-College electives will count towards the degree. For example, Biological Basis of Behavior (BBB) majors need 18.5 c.u. for the major and another 17.5 c.u. in electives to earn the 36 c.u. needed overall to graduate. Of the 17.5 c.u. of electives, 16 must be in the College. This means that BBB majors can count no more than 1.5 c.u. of non-College electives towards their degree.

Credits taken to satisfy a minor are considered electives. Some minors such as Photography and Nutrition involve significant coursework from other schools. These credits are considered non-College electives.

Non-College courses that fulfill College requirements are treated as College courses.

The College does not give any credit for Wharton Evening, ROTC or Preceptorial courses.

The rules governing non-College electives can be confusing. When in doubt, students should consult an assistant dean for advising in the College Office, since taking too many non-College electives could result in not being able to graduate on time.

POLICIES GOVERNING ACADEMIC OPTIONS

www.college.upenn.edu/policies/

Pre-College Courses

To receive credit for college work done before coming to Penn, the following criteria must apply:

- Any college courses used to fulfill high school graduation requirements are not eligible for credit at Penn.
- The college or university must be fully accredited.
- The course must correspond to a course offered by Penn, or be deemed equivalent in depth and intensity.
- The student must receive a grade of C or better.
- The course must be part of the normal curriculum published in the college's catalogue.
- The course must be taught on the college campus by a member of the regular faculty.
- The course must be open to enrollment by, and graded in direct competition with, regularly matriculated undergraduates at that college.
- The student must request that the college send an official transcript directly to Penn's Office of Transfer Credit and Advanced Placement along with a letter stating that the course was offered on the college campus in direct competition with regularly enrolled college students.

Credit Away

Taking courses at another American university after matriculation into the College and transferring the credit back to Penn is called "credit away."

A minimum grade of C is required for a course to be eligible for credit away. The grade itself, however, will not appear on the Penn transcript. After matriculation at Penn, students may not transfer more than 5 c.u. of credit away. Only 4 c.u. may be transferred for work done during one summer. No credit will be granted for:

- Courses taken at two-year institutions (i.e. junior or community college)
- Courses taken in time frames significantly different from the regular University schedules (academic year and summer sessions)

continued

- Courses other than field courses taken on sites without appropriate facilities of a college or university (e.g., libraries and laboratories) unless supervised by School of Arts and Sciences faculty
- Distance learning or online courses taken with institutions other than Penn.

Credit away may only count toward requirements in the General Education Curriculum when the department assigns the course a number identical to the number of a Penn course approved for the requirement.

Students must complete the final two semesters of full-time study in the College.

Internships

The College does not grant credit for internships. In order for students to have a notation regarding their internship placed on their transcript, they must fill out a request form and submit it to the College Office.

The College Office will then write to the sponsoring company/organization granting the student permission to work there as an intern while making it clear that the University will not indemnify the company or organization during the internship. The University will not insure the student during the internship.

When the College Office receives confirmation that the student has successfully completed an internship, the notation will be placed on the transcript.

Minors

Minor courses must be taken for a grade, not pass/fail.

Students adding any of the interschool minors to their College programs may need to complete more than the minimum number of courses for graduation, since only the College courses in these minors will count toward the required number of College electives. They should consult a College advisor in planning their program.

Study Abroad

A minimum cumulative g.p.a. of 3.0 is required to apply for study abroad; some programs stipulate a higher g.p.a. If a student does not maintain this minimum g.p.a. through the end of the term prior to studying abroad, approval to study abroad can be revoked by the College.

Students studying abroad pay regular Penn tuition and continue to receive financial aid as if they were in residence on Penn's campus. They will receive credit for their course work as long as the relevant academic departments at Penn approve this credit. Their grades become a regular part of their transcript and are tabulated into their Penn g.p.a.

Credit will not be awarded for programs that are not formally affiliated with the University of Pennsylvania.

Summer Study Abroad at Other Universities

Students may choose to study abroad in the summer through an institution other than Penn. In order to do so, they must seek prior approval from academic departments at Penn for the credits they wish to transfer back. These credits will be treated as credit away and the grades will not be tabulated into the Penn g.p.a.

Dual Degree

Students who have been accepted to dual degree programs must complete 14 College electives, including courses for the Foundational Approaches, Sector Requirement and Free Electives.

The total number of credit units for both degrees is between 37 and 48. Students must complete worksheets with their advisors in both schools showing how they will meet graduation requirements.

Application

In order to apply at the end of the first year at Penn, students must have completed at least 8 c.u. at Penn. Students may not apply to the dual degree program with unresolved I's, NR's or GR's on their transcripts.

Applications for a dual degree can be submitted at the end of the freshman year, after the first semester of the sophomore year or at the end of the sophomore year. Students are not eligible to apply for the dual degree after the sophomore year.

Both degrees must be awarded at the same time even if the requirements for one are completed in an earlier semester.

With the School of Engineering

The Engineering School looks for a cumulative g.p.a. of 3.00. Students should have credit for MATH 104 and 114, and depending on their prospective major in Engineering:

- CSE 110 or 115 or 120 and 121
- PHYS 150, or 150 and PHYS 151; or
- CHEM 101 and CHEM 053.

By the end of the second year, prospective students should have taken at least one sophomore-level engineering course. The total number of credit units a student must have for the two degrees may run as high as 46.

With the Nursing School

A g.p.a. of 3.00 is necessary for consideration.

With the Wharton School

Students must have a minimum 3.4 cumulative g.p.a. at the time of application. This g.p.a. requirement is a minimum. It does not guarantee admission to the program. To be truly competitive, College students should have a g.p.a. of approximately 3.6.

In order to apply at the end of one's first year, a student needs to have taken, or have credit or a waiver for, ECON 001, ECON 002 and MATH 104.

In order to apply in the middle of the sophomore year, students must have taken STAT 101 and ACCT 101.

In order to apply at the end of the sophomore year, students must have taken STAT 102 and ACCT 102 as well.

Submatriculation

The minimum course requirement for the master's degree is 8 c.u., although some graduate programs may require more than this minimum. Courses earning credit for the master's degree must be at the graduate level as specified by the graduate program, usually at the 500 level and above.

In any submatriculation program, no more than 4 c.u. within the minimum requirements for the B.A. degree may be applied to the master's degree. Thus, the minimum number of course units for a submatriculation program is 36. These four courses may be part of the major requirements or the electives of the undergraduate program, but may not include courses in independent study. Some graduate programs may permit fewer than four courses to be double-counted.

Graduate courses taken prior to admission into a submatriculation program in the School of Arts and Sciences (SAS) cannot be applied toward a master's degree. Regulations for non-Arts and Sciences submatriculation programs may vary.

Independent study courses applied to the master's degree in the Graduate Division of Arts and Sciences may not be taken as part of the B.A degree requirements, must be numbered at the 600 level and above, and must be approved in advance by the Associate Dean for Graduate Studies.

College students submatriculating in the SAS graduate programs are expected to complete both degrees in four years. They may not extend their undergraduate program without special permission. College students submatriculating in non-SAS graduate programs will normally receive their Bachelor of Arts degree after four years and then be considered solely graduate students.

Residency: All coursework for a master's degree from Arts and Sciences must be completed at Penn. No transfer, study abroad, or study away courses will be accepted. Requirements for non-Arts and Sciences programs may vary.

The submatriculating student should go to the graduate school office in November of the student's senior year to ensure that papers for the master's are in order.

DIRECTORY OF WEBSITES

A-C

Advanced Placement www.college.upenn.edu/freshmen/ap.php
Academic Calendar www.college.upenn.edu/
Academic Timeline www.college.upenn.edu/advising/timeline.php
Alcohol Policy Initiatives www.vpul.upenn.edu/alcohol/
Benjamin Franklin Scholars www.upenn.edu/curff/scholars/scholars_bfs.htm
Blog (and the freshman questionnaire) www.college.upenn.edu/freshmen/blog.php
Career Services www.vpul.upenn.edu/careerservices/
Center for Undergraduate Research and Fellowships www.upenn.edu/curff
Chaplain, Office of the www.upenn.edu/chaplain/
Civic House www.vpul.upenn.edu/civichouse/
College 99 www.college.upenn.edu/research/college99.php
College Alumni Mentoring Series www.college.upenn.edu/support.cams.php
College Website www.college.upenn.edu/
Communication Within the Curriculum (CWIC) www.sas.upenn.edu/cwic/
Computing Services www.sas.upenn.edu/computing/services/students.html
Counseling and Psychological Services www.vpul.upenn.edu/caps/
Course Selection Materials www.college.upenn.edu/registration/selecting.php
Credit Away www.college.upenn.edu/options/creditaway.php
Curriculum www.college.upenn.edu/curriculum/2010/
CUREJ (College Undergraduate Research Electronic Journal) repository.upenn.edu/curej/

D-G

Departments and Programs www.college.upenn.edu/majors/depts.php
Department and Program Offices www.college.upenn.edu/majors/offices.php
Department and Program Undergraduate Chairs www.college.upenn.edu/majors/chairs.php
Disabilities Services www.vpul.upenn.edu/lrc/sds/
Dual Degree www.college.upenn.edu/degree/dual.php
Email account www.sas.upenn.edu/computing/help/Email/create_acct.html
Financial Services, Student www.sfs.upenn.edu/
Freshman Information www.college.upenn.edu/freshmen/
Freshman Seminars www.college.upenn.edu/courses/seminars/freshman.php
Graduate/Undergraduate Mentoring Program www.gsc.upenn.edu/programs/mentoring/
Graduation Requirements www.college.upenn.edu/seniors/requirements.php

H-O

Health Education, Office of www.vpul.upenn.edu/ohel/
Information Commons, David B. Weigle <http://wic.library.upenn.edu/>
Intellectual Life Outside of Class www.college.upenn.edu/support/intellect.php

International Programs, Office of www.upenn.edu/oip/
 Internships www.college.upenn.edu/options/internships.php
 Joint Degree www.college.upenn.edu/degree/joint.php
 Language Competency Sequence www.college.upenn.edu/curriculum/policies/competency.php
 Language Study www.college.upenn.edu/language/
 Law Careers www.college.upenn.edu/careers/law.php
 Learning Resources Center, Weingarten www.vpul.upenn.edu/lrc/
 Library www.library.upenn.edu/
 Major Advising Program (MAP) www.college.upenn.edu/support.map.php
 Majors www.college.upenn.edu/majors/
 Medical Careers www.college.upenn.edu/careers/health.php
 Minors www.college.upenn.edu/minors/
 New Student Orientation www.upenn.edu/nsol/
 Ombudsman, Office of the www.upenn.edu/ombudsman/

P-S

Penn Athletics www.pennathletics.com/
 PennKey www.upenn.edu/computing/pennkey/
 PENNCAP www.vpul.upenn.edu/aap/aap_home.html
 Quaker Consortium www.college.upenn.edu/options/quaker.php
 Registrar, Office of the www.upenn.edu/registrar/
 Requirement Courses (Database) fusion.sas.upenn.edu/coll/genreq/index.php
 Requirements (College Curriculum) www.college.upenn.edu/curriculum/2010.php
 Research www.college.upenn.edu/research
 Registration Tutorial www.college.upenn.edu/registration/
 Speaking (CWIC) www.sas.upenn.edu/cwic/
 Student Health Services www.vpul.upenn.edu/shs/
 Student Life, Office of www.vpul.upenn.edu/osl/
 Study Abroad www.college.upenn.edu/abroad/
 Submatriculation www.college.upenn.edu/degree/submatric/

T-W

Tutoring Center www.vpul.upenn.edu/aap/tutoringCenter_home.html
 University Life www.vpul.upenn.edu/resources.html
 University Scholars www.upenn.edu/curfs/scholars/scholars_us.htm
 Vagelos Scholars www.sas.upenn.edu/biochem/vspmls.html
 Washington Semester www.college.upenn.edu/options/washington.php
 Webcast for incoming freshmen www.college.upenn.edu/freshmen/webcast/
 Women's Center, Penn www.vpul.upenn.edu/pwc/main.html
 Writing Center www.writing.upenn.edu/critical/help/
 Writing Seminars <http://writing.upenn.edu/critical/courses.html>

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The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to: Executive Director, Office of Affirmative Action and Equal Opportunity Programs, Sansom Place East, 3600 Chestnut Street, Suite 228, Philadelphia, PA 19104-6106 or by phone at 215.898.6993 (Voice) or 215.898.7803 (TDD).

