

ACADEMIC PLANNING GUIDE FOR NEW STUDENTS 2016-2017



COLUMBIA COLLEGE
COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK



COLUMBIA ENGINEERING
The Fu Foundation School of Engineering and Applied Science

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WELCOME

Dear Class of 2020,

Welcome to Columbia! In the course of the next four years, you will explore academic disciplines, hone your abilities as a critical thinker, expand your cultural interests, and discover new passions; you will engage in discussion and debate with the world's brightest minds, consider perspectives very different from your own, and be challenged to discover, grow, and change, both personally and intellectually.

We at the James H. and Christine Turk Berick Center for Student Advising (CSA) are here to help you navigate your time at Columbia. Throughout your four years, we will serve as your primary contacts for academic advising, and are available to offer advice, answer questions, help solve problems, connect you with resources, and brainstorm about courses of study, life plans, or anything else that may be on your mind. More immediately, we want to help you get ready for your first semester at college. To this end, we provide this *Academic Planning Guide for New Students*, with information on planning your schedule, required and elective courses, campus resources, and an overview of the requirements for your degree.

In mid-July you will receive an email introducing you to your adviser, who will be available—in person or by phone or email—to answer any questions you may have as the academic year approaches. We ask that you schedule an appointment with your adviser during the New Student Orientation Program (NSOP) in late August to discuss your personal and academic goals and refine your plans for the Fall 2016 semester. Before that, we strongly urge you to look through this guide and write down ideas for your first-semester schedule, potential majors, or any questions you may have on the included worksheet as preparation for your first conversation with your adviser.

In short, we are here for you. We look forward to meeting you and helping you make the most of your time here at Columbia.

Sincerely,



Andrew Plaa, PhD
Interim Dean of Advising
Berick Center for Student Advising

JAMES H. AND CHRISTINE TURK BERICK CENTER FOR STUDENT ADVISING

The James H. and Christine Turk Berick Center for Student Advising guides and supports students at Columbia College and The Fu Foundation School of Engineering and Applied Science as they navigate their educations and lives at Columbia University. Advisers help students recognize and pursue their passions; challenge students to set realistic academic and life goals to ensure personal success; and empower students to think and act creatively and independently.

You will have an adviser from the CSA throughout your time at Columbia. You will receive the name and contact information of your assigned adviser in mid-July. You will have an opportunity to meet your adviser during the New Student Orientation Program, but you are welcome to contact your adviser with any questions you may have this summer.

Advisers have diverse educational and professional backgrounds that complement the varied interests, goals, and backgrounds of our student population. The CSA works closely with offices across the Columbia campus to create a seamless advising experience for students as they grow intellectually, socially, and professionally at Columbia.

Your adviser is one of a community of advising resources available to you at Columbia. Our faculty are another vital source of advice. They are available to discuss research opportunities, to elucidate the finer points of course material and major requirements, and to guide you through your declared field of study.

Your adviser is your primary point of contact for a variety of issues and questions, including the following:

- General academic questions, concerns, or difficulties
- Registration questions and problems
- Connecting with faculty
- Changes in academic program, in consultation with faculty advisers
- Receiving transfer, AP/IB/GCE, or summer course credit
- Premed and prelaw requirements and other academic opportunities
- Understanding University policies and petitioning for exceptions to academic policy
- Planning to study abroad
- Progress toward and completion of requirements for the degree
- Personal problems and concerns
- Leaves of absence
- Referrals to other resources on campus
- Future life plans

THE ADVISING PARTNERSHIP

Productive advising is built on a true partnership in which the student and the adviser work together. The spirit of an ideal advising partnership is mutual engagement, responsiveness, and dedication. Regular advising conversations, the fundamental building blocks of the partnership, enable an adviser to serve as a resource of knowledge and a source of referrals—so that students may plan and prepare, in the broadest sense, throughout their time at Columbia.

TO MAKE THIS PARTNERSHIP A SUCCESS:

Students should

- Actively engage in the advising relationship
- Respond to adviser outreach and be forthcoming about perceived obstacles to success
- Proactively research and plan ways to reach academic goals and be open to sharing these goals with their advisers
- Be open to researching the answers to questions with advisers in order to learn ways in which to find information on their own
- Act upon referrals to other sources of information and advice
- Let advisers know when they have not been able to find needed information and advice

Advisers should

- Be knowledgeable, responsive, and supportive
- Reach out to advisees, especially when an advisee seems to be struggling
- Inquire about students' short- and long-term goals and ask students to consider study abroad, fellowships, scholarships, internships, research opportunities, etc.
- Research the answers to questions with students as a way to show students how and where to find information on their own
- Refer students to other sources of advice and information and connect advisees with appropriate faculty members and departments
- Follow up with students on important matters in a timely way



**COLUMBIA
COLLEGE**

THE BASICS

To earn the Bachelor of Arts degree from Columbia College, you must:

- complete the Columbia College Core Curriculum
- satisfy the specific requirements for a major or concentration
- earn 124 credits

You must register for 12 or more credits per semester. You are expected to complete all requirements within eight semesters of study. First-year students generally register for 15–16 points their first semester.

THE CORE CURRICULUM

Since 1919, the Core Curriculum has provided students with wide-ranging perspectives on significant ideas and achievements in literature, philosophy, history, music, art, and science. The classes that comprise the Core engage social, political, and philosophical ideas that have resonated across millennia and continue to challenge us today. The Core hones the skills and habits of analysis, argument, and respect for ideas, nuances, and differences.

In your first year, you will be required to complete *Masterpieces of Western Literature and Philosophy*, *University Writing*, and *Frontiers of Science*. Students complete *Introduction to Contemporary Civilization in the West* in their second year. You should aim to complete *Masterpieces of Western Art* and *Masterpieces of Western Music* by the end of your third year. Plan the rest of your program according to your own academic goals: the College envisions that the Core will arc across your years of study, introducing you to new disciplines and paralleling or converging with your major.

The complete Core requirements are listed below, along with brief descriptions of each course. For a more in-depth look, please visit the Core website at college.columbia.edu/core.

The Core:

- *Masterpieces of Western Literature and Philosophy* (HUMA C1001-C1002) (two semesters)
- *University Writing* (ENGL C1010)
- Foreign language (four semesters or the equivalent)

- Science (SCNC 1000: *Frontiers of Science* plus two one-semester courses from an approved course list)
- *Introduction to Contemporary Civilization in the West* (COCI 1101-1102) (two semesters)
- *Masterpieces of Western Art* (HUMA 1121) (one semester)
- *Masterpieces of Western Music* (HUMA 1123) (one semester)
- Global Core (two one-semester courses from an approved course list)
- Physical education (two one-semester courses, plus swim test)

LITERATURE HUMANITIES

What is required? HUMA 1001-1002: *Masterpieces of Western Literature and Philosophy*

When? Fall and spring semester of the first year.

Can I test out? No.

Special notes: All first-year students must be prepared to discuss the first twelve books of *The Iliad* at the introductory lecture, which meets during the week of New Student Orientation.

Each member of the Class of 2020 will be presented with a copy of *The Iliad*, a gift from The Columbia College Alumni Association, when they arrive on campus in August. We suggest students prepare for the first day of class by reading either an electronic version of *The Iliad* or a copy borrowed from the local library.

The edition used in Literature Humanities classes is the Lattimore (2011) translation.

Students gather in small seminars, twice a week, for literary analysis and discussion of works by Homer, Herodotus, Thucydides, Plato, Virgil, Augustine, Dante, Montaigne, Shakespeare, Austen, Dostoyevsky, Woolf, and others. Lit Hum, as it is popularly known, offers you the opportunity

to consider particular conceptions of what it means to be human and the place of such conceptions in the development of critical thought. One of the central aims of Lit Hum is to help you develop and construct your own independent and cogent critical arguments, both in class discussions and in your written work.

UNIVERSITY WRITING

What is required? *ENGL 1010: University Writing*

When? This course must be taken in the first year. Half of the first-year class will take it in the fall, the other half in the spring.

Can I test out? No.

University Writing is designed to help undergraduates develop the reading and writing skills they need to participate fully in the intellectual life of the University. The course gives special attention to close reading, rhetorical analysis, research, collaboration, and substantive revision. Refining their ideas and their prose through multiple drafts of their essays, students learn that writing is a skill that can be developed through practice.

All first-year students must complete *University Writing* during the first year. Credit from Advanced Placement exams in English does not exempt students from this requirement.

FOREIGN LANGUAGE

What is required? Proficiency at the intermediate level of a foreign language, typically Intermediate Level II

When? It is recommended that you start in the first year.

Can I test out? Yes. Exemption or placement level can be determined by AP scores, SAT II scores, or departmental placement tests. See Appendix A.

Special notes: See Appendix A for more information on satisfying the language requirement.

You may choose to acquire a new language or continue to study a language with which you are familiar. If you wish to continue learning a language, you must take a placement exam offered by the relevant foreign language department in order to determine the appropriate course level for you at Columbia. Departmental placement exams in many languages will be given during New Student Orientation. Students who can place themselves in an appropriate level based on SAT II scores do not have to take a Columbia placement test. All language instruction courses must be taken for a letter grade. Students who wish to test out of the language requirement with a language not taught at Columbia should contact the director of the Language Resource Center: lrc.columbia.edu.

SCIENCE

What is required? The science Core course, *SCNC 1000: Frontiers of Science*, plus two one-semester courses from an approved course list

When? *Frontiers of Science* in the first year. Additional courses at any time.

Can I test out? No.

Special notes: Students may not use Barnard College courses to fulfill the science requirement unless otherwise noted. A list of courses approved for the science requirement is here: bulletin.columbia.edu/columbia-college/core-curriculum/science-requirement

The science requirement has two components, *Frontiers of Science* and two additional courses of your choosing. *Frontiers of Science* will introduce you to the most exciting developments in contemporary science while teaching you the value of scientific habits of mind, including the reasoning skills fundamental to the scientist's work and essential to the life of an informed citizen. The two additional semesters in specific disciplines will allow you to study a natural science in greater depth. You can take these courses in the same department or in different departments. However, at least one course must be taken in one of the following departments: Astronomy; Biological Sciences; Chemistry; Earth and Environmental Sciences; Ecology, Evolution and Environmental Biology; Physics; or Psychology. The other can be a Mathematics, Statistics, or Computer Science course.

CONTEMPORARY CIVILIZATION

What is required? *COCI 1101-1102: Introduction to Contemporary Civilization in the West, I and II*

When? This two-semester sequence is usually taken in the sophomore year.

Can I test out? No.

Students meet in small seminars, twice a week, for intensive study and discussion of important works of philosophy and political theory by Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Kant, Smith, Marx, Darwin, DuBois, Nietzsche, Freud, and others. In CC you will consider, among other issues, the kinds of communities—political, social, and moral—that we construct for ourselves and how those communities might be defined. Like Lit Hum, CC focuses on developing your critical skills through rigorous class discussions and written assignments. First-year students are not permitted to take CC.

ART HUMANITIES

What is required? *HUMA 1121: Masterpieces of Western Art*

When? By the end of your junior year.

Can I test out? No.

Students convene in small seminars for analysis and discussion of selected works of painting, sculpture, and architecture. Art Hum students will also visit museums and art galleries as they work to develop a foundation in visual literacy. Topics include the Parthenon, Amiens Cathedral, Raphael, Michelangelo, Rembrandt, Bernini, Goya, Monet, Picasso, Pollock, and Frank Lloyd Wright.

If you are interested in majoring in art history, architecture, or visual arts, you should take Art Hum as soon as possible.

MUSIC HUMANITIES

What is required? *HUMA 1123: Masterpieces of Western Music*

When? By the end of your junior year.

Can I test out? Yes. Exemption from Music Hum may be obtained by passing an exemption exam. The exemption exam is usually offered on the first Friday of the fall semester and may be taken only once, at the beginning of a student's first semester at Columbia.

Students gather in small seminars for analysis and discussion of representative musical works from the Middle Ages to the present. Students also attend live music events both in and out of the classroom. Works studied include those by Josquin des Prez, Monteverdi, Bach, Handel, Mozart, Haydn, Beethoven, Verdi, Wagner, Schoenberg, Stravinsky, Louis Armstrong, and Duke Ellington.

GLOBAL CORE

What is required? Two courses

When? Recommended in sophomore and junior years.

Can I test out? No.

Special notes: The Global Core list of approved courses is here: bulletin.columbia.edu/columbia-college/core-curriculum/global-core-requirement

The Global Core requirement consists of courses that examine areas that are not the primary focus of Literature Humanities and Contemporary Civilization, and that, like other Core courses, are broadly introductory, interdisciplinary, and temporally or spatially expansive.

Global Core courses fall into two categories. One group focuses on a specific culture or civilization, tracing its appearance and/or existence across a significant span of time and sometimes across more than one present-day country or region. The other group addresses several world settings or cultures comparatively (and may include Europe and the West), in terms of a common theme, a set of analytical questions, or interactions between different world regions. Courses in the Global Core are organized around a set of primary texts or artifacts, which may range from texts of literate traditions to media (e.g., film), ritual performances, or oral sources, produced in the regions of the world in question.

PHYSICAL EDUCATION

What is required? Two courses and a swim test

When? Before graduation.

Can I test out? No.

Special notes: Students unable to complete the swim requirement due to physical restrictions should obtain a waiver from Columbia Health before contacting the Physical Education Department.

The physical education component of the Core emphasizes the importance of balancing mind and body. The department offers a variety of activities in the areas of aquatics, fitness, martial arts, team sports, and outdoor education.

Students who participate in an intercollegiate sport can receive physical education credit by registering for the appropriate team section of *PHED 1005: Intercollegiate Athletics*.

MAJORS AND CONCENTRATIONS

All students must complete at least one major or concentration to fulfill the degree requirements; students may select a second major, concentration, special concentration, and/or a special program in addition to the first selection. Selecting only a special concentration or special program will not fulfill the requirements for the Bachelor of Arts degree.

Double Majors/Concentrations: All students attempting to complete double majors, double concentrations, or a combination of a major and a concentration should keep in mind that they must complete **separate sets of required and related courses for each field**. A single course may not count for both programs.

Premedical Students: You must complete a regular concentration or major while fulfilling the premedical curriculum.

Students who are undecided should talk to their advising dean about choosing classes that will help them explore potential majors. Each department and academic program has a Director of Undergraduate Studies, a faculty member who can answer your questions about requirements for the major or concentration, guide your choices about placement level, discuss opportunities to study abroad, and assist you in planning your program.

Columbia College students declare their major and/or concentration during the spring of sophomore year. For more

information on the requirements for a particular major, please consult the *Bulletin* online (bulletin.columbia.edu/columbia-college). Some programs do require an early start, and this may impact course selection in your first year.

REGISTRATION ADVICE

You will be preregistered for Literature Humanities and either *University Writing* or *Frontiers of Science* for the Fall 2016 semester. You are responsible for choosing the rest of your classes and building your schedule around those Core classes. Start by browsing available courses in the online *Bulletin* (bulletin.columbia.edu/columbia-college) or Directory of Classes (columbia.edu/cu/bulletin/uwb). Create a few sample schedules with alternate electives. For each course, write down the course title, section number, credits, and call number, and check to see if the class has an accompanying recitation or discussion section.

You will register online beginning on the Friday of New Student Orientation. You should have already received a mailing with an assigned UNI (Columbia login and email address) and password. You will use them to create an email account and to log into Student Services Online (SSOL), at ssol.columbia.edu. To see when and where your preregistered classes meet, click on Schedule. Your registration appointment times are listed under Reg Appts.

Your schedule may not be complete at the end of the first registration appointment times. You will have the opportunity to finalize your schedule during the first weeks of classes, when there is a lot of movement in enrollment.

PLACEMENT

If you believe that you can demonstrate proficiency beyond the introductory level in chemistry, physics, or a foreign language, and wish to take an advanced class in these subjects, you must take a placement test during Orientation. Read below for advice on course selection.

LANGUAGES

If you are interested in continuing with a language you have already studied, you may need to take a placement test during Orientation. Some language departments, including Chinese, French, Spanish, German, Italian, Hebrew, and Latin, can place students in the correct course level based on SAT II or AP scores. Please see Appendix A for more information.

Note: If you are beginning a new language, you may register for an Elementary Level I (1101) section without taking a placement test.

CALCULUS

Suggested math guidelines for Columbia College students are as follows:

Calculus I: Covers primarily differential calculus of functions of one variable with geometric applications and the Fundamental Theorem of Calculus. Take *Calculus I* if you:

- have not taken calculus in high school, or
- have less than a full year of high school calculus, or
- have a full year of calculus but have a score of less than 4 on an AP exam.

Calculus II: Covers special functions, integration techniques, more geometric applications of integration, and infinite series, including Taylor series. Take *Calculus II* if you:

- received a 4 or 5 on the AB exam, or
- received a 4 on the BC exam, or
- received a 6 on the IB HL calculus exam, or
- received a B on the A-level GCE Further Maths exam, or
- didn't take an AP exam but received a grade of A in a full-year high school calculus course.

Calculus III: Starts with vector algebra in 3-space and complex numbers (with application to certain ordinary differential equations), and covers vector differential calculus in several variables, including Lagrange multipliers. Take *Calculus III* if you:

- received a score of 5 on the BC exam,
- received a 7 on the IB HL calculus exam, or
- received an A on the A-level GCE Further Maths exam

Calculus IV: Covers multiple integrals, line and surface integrals, and vector integral calculus of functions of two and three variables, including the theorems of Green, Gauss, and Stokes. The end of the course includes an introduction to either the theory of functions of a complex variable or Fourier series. While many students have had some exposure to multivariable calculus, first-year students are strongly advised not to begin with *Calculus IV*, which covers quite deep material at a fast pace.

Honors Mathematics A and *B* are for those who have a strong interest in pure mathematics. The emphasis is on precise definitions and statements of theorems and proofs of theorems. Prospective majors in mathematics and physics should consider this track. These two courses cover linear algebra as well as the material of *Calculus III* and *IV* from a theoretical point of view.

CHEMISTRY

All students wishing to place into a higher level of chemistry than 1403-1404 in the fall must attend an information session and take a placement exam given during Orientation.

The chemistry class you take will be determined by the results of that placement exam. There are three different first-year tracks. In Track 1, students take *CHEM 1403-1404*, a one-year course in general chemistry, with *CHEM 1500*, a one-term laboratory course. *Calculus I* or the equivalent is a corequisite.

In Track 2, students take *CHEM 1604*, a one-term intensive course in general chemistry. *Calculus II* or the equivalent is a corequisite. The accompanying lab can be either *CHEM 1500* or *CHEM 1507*, depending on placement.

In Track 3, students take *CHEM 2045-2046*, a one-year intensive course in organic chemistry. All students in Track 3 take *CHEM 1507*, a one-term laboratory course.

Note: Students who are considering the premedical curriculum should take chemistry and the appropriate lab in their first year.

PHYSICS

If you have a strong background in physics, you may wish to take *PHYS 2801: Accelerated Physics I*. In order to place into this advanced course, you must either take a placement test during Orientation or have scored a 4 or 5 on both the AP Physics and AP Calculus BC tests.

All students interested in taking this course must attend the information session offered during Orientation.

THEATRE

Auditions are required for each semester's acting classes and productions. Sign-up sheets for audition sessions are posted in the lobby of the Minor Latham Playhouse on the first floor of Milbank Hall at Barnard College. First-year auditions will take place during the first week of the term. Students auditioning for courses or productions that require singing should prepare a two-minute monologue as well as a standard chorus, or approximately 16 bars, to be sung a cappella. Otherwise, students should prepare a two-minute monologue only.

Please see theatre.barnard.edu for additional information.

MUSIC PERFORMANCE

For information about music lessons, university orchestra, chamber ensembles, jazz ensembles, Collegium Musicum, Bach

Society, Marching Band, Wind Ensemble, Klezmer Band, and more, please visit the website at music.columbia.edu/mpp or stop by the office in 618 Dodge Hall during NSOP. Auditions are required for music lessons as well as music performance groups, and will be held during the first week of classes.

ADVANCED STANDING

The College grants up to 16 credits earned from Advanced Placement (AP), General Certificate of Education Advanced Level Examinations (A levels), the International Baccalaureate Examination (IB), and other national systems. A complete description of policies, credits, and/or exemptions can be found in the *Columbia College Bulletin*: bulletin.columbia.edu/columbia-college. Please note that students are governed by the academic standing policies that are in place during their first year at Columbia.

The table on pages 10–11 generally sets forth ways in which Columbia College students can obtain credit based on AP scores. This chart is designed to be a guide only. Students must consult with their advising dean to discuss what credit they may be eligible for and ways to use any applicable credits in the registration process. Columbia College students may accrue a maximum of 16 points toward graduation through AP scores. The point equivalents are entirely the prerogative of the faculty and are determined by the relevant academic department. Students should not rely exclusively on this chart without further consultation. Moreover, this chart is subject to change based on the academic discretion of the faculty of Columbia University.

Students who wish to receive advanced placement credit may not register for courses at Columbia that cover similar or more basic material than the work already completed; nor may a student receive credit for two exams that cover the same material (for example, Calculus AP and Mathematics A Level). In some cases, a student must complete a particular course before credit will be awarded. In general, advanced standing credit is awarded prior to the sophomore year. An official score report is required for credit to be evaluated.

Advanced standing may not be used for exemption from any of the Core Curriculum courses, with the exception of AP scores that may satisfy the language requirement.

Appropriate placement should not depend simply upon test scores and the credit you hope to receive upon evaluation of

those scores. For some students, appropriate placement may mean forfeiting advanced credit to achieve stronger preparation in a subject area.

You will not be granted credit for courses taken at other colleges prior to your graduation from secondary school. Entering students may receive up to 6 points of credit toward the Columbia degree for college courses taken after graduation from secondary school and prior to enrollment at Columbia College. You will be eligible for credit only in subjects that are taught at Columbia; you should not take courses that duplicate those in the Core Curriculum. You must earn a minimum grade of C– in order to receive credit. If you would like to exercise this option, please contact the CSA before enrolling.

Official transcripts for this work, along with catalog descriptions and a copy of the syllabus for each course, should be submitted to the James H. and Christine Turk Berick Center for Student Advising for review. There is no guarantee of credit, which will be awarded only upon approval by the CSA.

If you plan to take summer classes through Columbia's Summer Session, you must obtain approval from the CSA prior to enrollment. Please be aware that students who have not yet matriculated in the University are not allowed to live on campus, so you will need to explore alternative housing options.

Grades for summer school classes taken prior to matriculation will not be calculated into the Columbia GPA and the classes might not count toward your eventual major, even if the summer classes are taken at Columbia.

STUDY ABROAD

ogp.columbia.edu

The Office of Global Programs and Fellowships helps students take part in intellectually rigorous international educational experiences that enhance and complement their Columbia education as well as their personal, academic, and professional growth. It is never too early to start preparing to study abroad. Students from every major should explore the possibilities that international education has to offer. Visit the Academic Resources Fair during Orientation, the annual Study Abroad Fair, and the office in 606 Kent for personalized advising.

ADVANCED PLACEMENT CREDIT CHART

In order to receive AP credit, students must send official score reports to Columbia. The CEEB code is 2116.

SUBJECT	SCORE	CREDIT	
Biology	5	3	The department grants 3 credits for a score of 5 on the AP Biology exam. Placement is determined by the department. Students with a 5 on the AP are encouraged to take <i>BIOL 2005</i> and <i>BIOL 2006</i> but are not required to do so. For details, see columbia.edu/cu/biology/ug/faqs.html
Chemistry	4 or 5	3 or 6	The department grants AP credit for a score of 4 or 5. The amount of credit granted is based on the results of the department placement exam and completion of the requisite course. Students who are placed into <i>CHEM 1604</i> are granted 3 points of credit; students who are placed into <i>CHEM 2045-2046</i> are granted 6 points of credit. In either case, credit is granted only upon completion of the course with a grade of C or better. Students must complete a department placement exam prior to registering for either of these courses.
Computer Science A	4 or 5	3	The department grants 3 points for a score of 4 or 5 on the AP Computer Science A exam, along with exemption from <i>COMS 1004</i> .
Economics (Micro and Macro)	5 on one and 4 or 5 on the other	4	Tests must be taken in both microeconomics and macroeconomics, with a score of 5 on one test and at least a 4 on the other. Provided that this is achieved, the department grants 4 credits for a score of 4 and 5 on the AP Economics exam along with exemption from <i>ECON 1105</i> .
English (Language and Composition and/or Literature and Composition)	5	3	The department grants 3 credits for a score of 5 on the AP Language and Composition exam, but the student is not entitled to any exceptions. The department grants 3 credits for a score of 5 on the AP Literature and Composition exam, but the student is not entitled to any exceptions.
French (Language and/or Literature)	5	3	The department grants 3 credits for a score of 5 on the AP French Language exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3000-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in French. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP French Language exam, but the foreign language requirement is satisfied. The department grants 3 credits for a score of 5 on the AP French Literature exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3000-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in French. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP French Literature exam, but the foreign language requirement is satisfied.
	4	0	
German	5	3	The department grants 3 credits for a score of 5 on the AP German Language exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3000-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in German. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP German Language exam, but the foreign language requirement is satisfied.
	4	0	
Government and Politics (U.S. and/or Comparative)	4 or 5	3	The department grants 3 credits for a score of 4 or 5 on the U.S. Government and Politics AP exam upon completion of a 3000-level (or higher) course in the American Politics subfield with a grade of C or higher. The department grants 3 credits for a score of 4 or 5 on the Comparative Government and Politics AP exam upon completion of a 3000-level (or higher) course in the Comparative Politics subfield with a grade of C or higher. Students may be given an exemption, based on AP scores, from only ONE introductory political science course.

SUBJECT	SCORE	CREDIT	
History (European and/ or U.S.)	5	3	The department grants 3 credits for a score of 5 on the AP European History exam, but the student is not entitled to any exemptions, and these credits will not count toward a history major. The department grants 3 credits for a score of 5 on the AP United States History exam, but the student is not entitled to any exemptions, and these credits will not count toward a history major.
Italian	5	3	The department grants 3 credits for a score of 5 on the AP Italian Language exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3000-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in Italian. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP Italian Language exam, but the foreign language requirement is satisfied.
	4	0	
Latin	5	3	A score of 5 on the AP Latin exam satisfies the foreign language requirement. In addition, 3 points of credit will be awarded upon successful completion (with a grade of B or higher) of a Latin class at the 3000-level or higher.
Mathematics AB	4 or 5	3	The department grants 3 credits for a score of 4 or 5 on the AP Calculus AB exam. The amount of credit is reduced to 0 if the student takes MATH 1101.
Mathematics BC	5	6	The department grants 6 credits for a score of 5 on the AP Calculus BC exam. The amount of credit is reduced to 0 if the student takes <i>MATH 1101</i> or to 3 if the student takes <i>MATH 1102</i> .
	4	3	The department grants 3 credits for a score of 4 on the AP Calculus BC exam. The amount of credit is reduced to 0 if the student takes <i>MATH 1101</i> .
Physics	4 or 5	Up to 6	Students may earn a maximum of 6 credits in physics. The department grants 6 credits for a score of 4 or 5 on the AP Physics B exam, but the student is not entitled to any exemptions. The amount of credit is reduced to 3 if the student takes a 1000-level physics course. The department grants 3 credits for a score of 4 or 5 on the AP Physics C/MECH exam, but the student is not entitled to any exemptions. The amount of credit is reduced to 0 if the student takes <i>PHYS 1001</i> , <i>1002</i> , <i>1201</i> , <i>1401</i> , or <i>1601</i> . The department grants 3 credits for a score of 4 or 5 on the AP Physics C/E&M exam, but the student is not entitled to any exemptions. The amount of credit is reduced to 0 if the student takes <i>PHYS 1001</i> , <i>1002</i> , <i>1202</i> , <i>1402</i> , or <i>1602</i> .
Spanish (Language and/ or Literature)	5	3	The department grants 3 credits for a score of 5 on the AP Spanish Language exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3300-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in Spanish. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP Spanish Language exam, but the foreign language requirement is satisfied. The department grants 3 credits for a score of 5 on the AP Spanish Literature exam, which satisfies the foreign language requirement. Credit is awarded upon successful completion of a 3300-level (or higher) course with a grade of B or higher. This course must be for at least 3 points of credit and be taught in Spanish. Courses taught in English may not be used for language AP credit. The department grants 0 credits for a score of 4 on the AP Spanish Literature exam, but the foreign language requirement is satisfied.
	4	0	
Statistics	5	3	The department grants 3 credits for a score of 5 on the AP Statistics exam. Students who are required to take introductory statistics for their major should check with their major adviser to determine if this credit provides exemption from their requirement.

FELLOWSHIPS

college.columbia.edu/students/fellowships

The Office of Global Programs and Fellowships (606 Kent) supports students applying for national and international fellowships. Services range from ascertaining which fellowships are most appropriate given a student's academic performance, aspirations, and values, to helping applicants with requirements such as personal statements or research proposals, to preparing candidates through mock interviews. The goal is to give each student the necessary personalized training to submit the most compelling application possible.

PREPARATION FOR FUTURE PROFESSIONAL STUDY

PREPROFESSIONAL ADVISING

cc-seas.columbia.edu/preprofessional

The James H. and Christine Turk Berick Center for Student Advising includes Preprofessional Advising for Columbia College and The Fu Foundation School of Engineering and Applied Science. Preprofessional advisers provide information for students planning a career in law, business, or one of the health professions. They advise and assist students throughout their four years and beyond, working most intensively with students during their application year.

MEDICAL SCHOOL

If you are thinking about attending medical school, you should attend the Prehealth Advising meeting during New Student Orientation. This program will introduce you to the premedical curriculum and advising system and give you detailed advice about planning your schedule.

LAW SCHOOL

Law schools do not require a specific course of study; they prefer that applicants have a broad background of knowledge, with extensive work in writing and good analytical skills. Admission to schools of law depends on the quality of academic work rather than on the field of study. Your undergraduate program should include courses with substantial writing and reading components that strengthen analytical and research skills.

BUSINESS SCHOOL

Admission to business school depends on the quality of overall academic work and related experiences. Students planning to attend a graduate school of business may major in whatever field interests them; however, the undergraduate program should include courses that improve analytical and quantitative skills.

ENGINEERING 3-2 PROGRAM

This program is for students who wish to earn both the B.A. and B.S. degrees in five years. Students enter The Fu Foundation School of Engineering and Applied Science after their third year in the College. For more information, see the *Columbia Engineering Bulletin*, at bulletin.engineering.columbia.edu/combined-plan-programs.

NEW YORK STATE INITIAL TEACHING CERTIFICATION

Columbia College students may qualify for New York State Initial Certification in either childhood education or adolescence education through the Barnard College Education Program. An information packet and application can be picked up at 336 Milbank Hall or downloaded from the website at education.barnard.edu.

FREQUENTLY ASKED QUESTIONS

Q. How many classes should I take?

A. *Most students take four or five classes a semester (15–16 points).*

Q. What classes am I required to take in my first year?

A. *All Columbia College first-year students must take Literature Humanities (a two-semester course), University Writing (one semester), and Frontiers of Science (one semester). If space is available, you are encouraged to take Art Humanities or Music Humanities.*

Q. What should I do if I have not placed out of the language requirement?

A. *You should begin or continue to take a language in the first year.*

Q. What if I am considering going to medical school after I graduate?

A. *You should take chemistry, chemistry lab, and possibly calculus in your first year. You should also attend the Prehealth Advising meeting during New Student Orientation.*

Q. I am interested in majoring in a science. What courses should I take?

A. *Focus on the introductory math and science courses required by your prospective major department.*

Q. I am a humanities/social sciences type of person. What might my first-year schedule look like?

A. *Assuming you haven't placed out of language, your first-year schedule might include Literature Humanities, University writing, Frontiers of science, a language, and two or three elective courses of your choosing.*

Q. What if I have no idea what I want to major in?

A. *Most incoming students start exploring different departments by taking at least one elective course each semester. An elective is a course of your own choosing, in any department. First-year students are advised to select introductory courses, which are usually at the 1000 or 2000 level. Also, plan to speak with your adviser early about the many resources and opportunities available to help you explore major options.*

Q. How do I find out what courses are offered?

A. *Consult the online Columbia College Bulletin at college.columbia.edu/bulletin.*

ACADEMIC RESOURCES AND GUIDES FOR STUDENTS

BULLETIN

bulletin.columbia.edu/columbia-college

From course descriptions to major requirements to rules, regulations, and disciplinary procedures, the *Columbia College Bulletin* is the official source for answers to your academic questions.

DIRECTORY OF CLASSES

columbia.edu/cu/bulletin/uwb

The Directory of Classes contains a list of all courses offered in all undergraduate and graduate programs at Columbia Universi-

ty (with the exception of Teachers College). Students should use the *Bulletin* for registration purposes, as not all courses in the Directory are open to all students. See your adviser if you have any questions about which courses are available to you.

STUDENT SERVICES ONLINE

ssol.columbia.edu

Student Services Online (SSOL) provides instant access to student records, including grades, registration appointments, class schedules, financial aid information, and account details. Official transcripts may also be ordered via SSOL. To access this information, students must first activate their Columbia UNI at uni.columbia.edu. Among the many useful components is the Degree Audit Report (DAR). The DAR is a way for students to monitor their progress toward degree completion. Keep in mind that the DAR is a tool and not the authoritative transcript. All degree and major requirements are set forth in your school's *Bulletin*.

VERGIL

vergil.registrar.columbia.edu

Vergil contains consolidated course information from the *Bulletin* and Directory of Classes and allows you to search for courses by instructor, date and time, department, subject area, key words, and more. Vergil's Course Planner and graphical calendar interface enable you to keep track of courses of interest and export your projected schedule to your other calendar apps. You can also browse courses, syllabi, and textbook information, export your course selections to your SSOL Wish List, and be ready to register as soon as your appointment time arrives.

DEPARTMENTAL RESOURCES

Many academic resources are available through the departments. For additional information regarding each of these services, it is best to refer to an individual department's website.

Faculty and teaching assistant office hours are posted on course syllabi, departmental websites, and faculty office doors. Office hours are times set aside by a faculty member to meet with students to clarify concepts, discuss assignments, and mentor potential majors. You should take advantage of these hours to ask questions, address concerns, and connect with faculty.

Help Rooms are available for subjects taught in a number of departments, including physics, statistics, mathematics, and frontiers of science. During these open hours, you may ask questions of faculty and graduate assistants. Help Room schedules are available on the relevant departmental websites.

The **Writing Center** is located in 310 Philosophy Hall. It is staffed by graduate-student tutors and provides writers of all levels and abilities—from first-year students to seniors working on their theses—with the opportunity to have detailed conversations about their writing with experienced readers. Tutors will work with students at any stage in the writing process. Students may sign up for appointments at the Center or simply drop by during operating hours. You may contact the Writing Center at 212-854-3886 or at uwp@columbia.edu. For more information, see college.columbia.edu/core/uwp/writing-center.

The **Language Resource Center**, located in 353 International Affairs Building, provides collections and facilities for the more than 40 languages taught at Columbia University. These include language labs, several classrooms, and video-viewing facilities for use by individuals and small groups of up to 20. Students should take advantage of these services in order to practice their listening comprehension skills. For more information, visit lrc.columbia.edu.

TUTORING

cc-seas.columbia.edu/csa/tutoring

Tutoring is run by the James H. and Christine Turk Berick Center for Student Advising and provides peer tutoring in a broad range of introductory courses. Trained tutors assist students with mastering course content, sharpening testing skills, and maximizing their potential for academic success. Students should meet with their academic adviser to request a tutor as soon as the need becomes apparent. Additionally, the CSA also offers Academic Success Seminars throughout each semester. The topics of these seminars range from time management and note-taking to stress management. Seminars are open to all students.

COLUMBIA UNIVERSITY LIBRARIES

library.columbia.edu

The Columbia University Libraries is made up of 21 distinct libraries. They are centers for pursuing scholarly research, for learning about and using information technology, and for writing and studying. They offer a rich collection of print and electronic resources. The Library Information Office, located in Butler Library, Room 201, answers general questions about any of the Libraries' services and resources. Workshops are provided throughout the year to familiarize students with the available services.

BOOKSTORE

columbia.bnccollege.com

The Columbia bookstore is located in the basement of Lerner Hall. It is a full-service bookstore for the purchase of textbooks as well as other books of all categories, stationery, Columbia apparel, and household items for dormitory living.

COLUMBIA COLLEGE WORKSHEET

This worksheet is designed to help you start thinking about your first semester and potential courses of study at Columbia, as well as to prepare for your first meeting with your adviser.

Name: _____ UNI: _____ Cell phone #: _____

Using the online resources listed below, please create two possible schedules for the fall term. Be sure to include at least two or three courses that may lead to a major or concentration. Please keep in mind that you will be pre-enrolled in Literature Humanities and either University Writing or Frontiers of Science.

- *Columbia College Bulletin* (bulletin.columbia.edu/columbia-college): a list of courses and descriptions of all majors
- Directory of Classes (columbia.edu/cu/bulletin/uwb): a list of all courses offered at Columbia University*
- Vergil (vergil.registrar.columbia.edu): an online scheduling tool that links to the *Bulletin* and *Directory*

FALL 2015 OPTION 1

1. Lit Hum _____
2. University Writing or Frontiers of Science _____
3. _____
4. _____
5. _____

FALL 2015 OPTION 2

1. Lit Hum _____
2. University Writing or Frontiers of Science _____
3. _____
4. _____
5. _____

QUESTIONS?

Use the space below to write down any questions or concerns you would like to discuss with your adviser. These may be academic or nonacademic, and they may pertain to the transition to college, the role of your adviser, registration details, personal long- and short-term goals, extracurricular interests, etc.

*Not all classes are open to Columbia College students. Check the "Open To" field for the relevant class in the online directory, and ask your adviser if you have any questions.



**THE FU FOUNDATION
SCHOOL OF ENGINEERING
AND APPLIED SCIENCE**

THE BASICS

To earn a Bachelor of Science degree from The Fu Foundation School of Engineering and Applied Science (SEAS), you must earn at least 128 points of credit. Students take a minimum of five classes each term. You are expected to complete all requirements within eight semesters of study. The Bachelor of Science degree includes:

1. The first-year/sophomore technical requirements:
 - Calculus (some departments have additional math requirements)
 - Physics
 - Chemistry
 - *The Art of Engineering (ENGI 1102)*
 - Computer science
 - Lab requirement for selected major
2. At least 27 points of nontechnical requirements:
 - *University Writing (ENGL 1010)*
 - Core Humanities sequence
 - Art or Music Humanities
 - *Principles of Economics (ECON 1105)*
 - 3–4 courses of the student's own choosing
3. Requirements for a major
4. Physical education (two one-semester courses)

The first- and second-year curriculum at Columbia Engineering is designed to provide you with a firm background in pure science as well as a comprehensive grounding in the humanities. In this section, you will find detailed information on what to expect academically in your first two years.

FIRST-YEAR/SOPHOMORE TECHNICAL REQUIREMENTS

CALCULUS

What is required? Completion of *Calculus I–III* or *IV*, depending on SEAS major

When? All students must take calculus at the appropriate level in the first year.

Can I test out? No. However, previous background will determine placement level.

LEVELS OF CALCULUS

Calculus I: Covers primarily differential calculus of functions of one variable with geometric applications and the Fundamental Theorem of Calculus. Take *Calculus I* if you:

- have not taken calculus in high school, or
- have less than a full year of high school calculus, or
- have a full year of calculus but have a score of less than 4 on an AP exam.

Calculus II: Covers special functions, integration techniques, more geometric applications of integration, and infinite series, including Taylor series. Take *Calculus II* if you:

- received a 4 or 5 on the AB exam, or
- received a 4 on the BC exam, or
- received a 6 or 7 on the IB HL calculus exam, or
- received an A or B on the A-level GCE Further Maths exam
- didn't take an AP exam but received a grade of A in a full-year high school calculus course.

Note: SEAS students with a 4 or 5 on Calc AB, or a 4 on Calc BC, must begin with *Calculus II*. If a SEAS student with these scores self-places into *Calculus III*, he or she will be required to go back and take *Calculus II*. Students who have not taken an AP exam will have an opportunity to take a placement test during NSOP.

Calculus III: Starts with vector algebra in 3-space and complex numbers (with application to certain ordinary differential equations), and covers vector differential calculus in several variables, including Lagrange multipliers. Take *Calculus III* if you received a score of 5 on the BC exam.

Calculus IV: Covers multiple integrals, line and surface integrals, and vector integral calculus of functions of two and three variables, including the theorems of Green, Gauss, and Stokes. At the end there is an introduction to either the theory of functions of a complex variable or Fourier series.

Note: If a student has taken an equivalent math course (beyond *Calculus I* and *Calculus II*) that covers material beyond the Advanced Placement BC curriculum (e.g., *Calculus III*, *Calculus IV*) at a four-year accredited college and received a B+ or better, that student may take the math placement exam for placement into *Calculus III*, *Calculus IV*, or out of *Calculus IV*.

Placement into the appropriate level math course will be determined by the Department of Mathematics, with final approval

by the SEAS Dean's Office. Documentation will take the form of a course equivalence signed by the Department of Mathematics and countersigned by the Vice Dean for Undergraduate Programs in SEAS. Students placing out of *Calculus III* and/or *IV* will be required to replace those credits with alternative, upper-level math courses from a list of SEAS-approved courses. Those alternative choices cannot be used to satisfy any major requirements.

It is imperative that SEAS students heed the above guidelines for two reasons:

1. Students must master the material covered in both *Calculus II* and *III* in order to lay the groundwork for success in the SEAS curriculum.
2. Accreditation guidelines outlined by ABET (Accreditation Board for Engineering and Technology) require that students either fulfill the requisite amount of calculus as indicated for the major or prove equivalent knowledge.

PHYSICS

What is required? At least a one-year sequence of introductory physics at the 1400 level or higher; some majors may require one or more additional courses

When? First year, fall and spring.

Can I test out? No. However, your previous background in physics and/or the physics placement test given during Orientation will help to determine placement level.

All SEAS students are required to take physics in their first year. Students may choose from three sequences, or tracks:

Track 1

PHYS 1401: Introduction to Mechanics and Thermodynamics
PHYS 1402: Introduction to Electricity, Magnetism, and Optics

This sequence is intended for SEAS students who are going into departments that do not make essential use of physics. The 1400-level track is less mathematical and more oriented toward problem solving.

Note: Students who begin with *Calculus I* must take this sequence.

Track 2

PHYS 1601: Mechanics and Relativity
PHYS 1602: Thermodynamics, Electricity, and Magnetism

This sequence is intended for students who are going into departments that make active use of physics. It is a more mathematical sequence than the 1400 series.

Note: It is highly recommended that students who place into *Calculus III* enroll in this 1600-level track.

Track 3

PHYS 2801: Accelerated Physics I
PHYS 2802: Accelerated Physics II

This sequence is extremely challenging and is designed primarily for applied physics majors and students with an intense interest in physics. It is possible to place into the *Accelerated Physics* course in one of two ways:

- a placement test during Orientation, or
- a 4 or 5 on the AP Physics Exam and a 5 on the Calculus BC AP Exam.

All students interested in taking *Accelerated Physics* should attend the information session offered during Orientation.

CHEMISTRY

What is required? At least one semester of chemistry (possibly two, depending on your major)

When? Recommended fall of the first year.

Can I test out? No. However, your previous background in chemistry and/or your score on the chemistry placement exam taken during Orientation will help to determine placement level.

All students wishing to place into a higher level of chemistry than 1403-1404 must attend a chemistry information session and take a placement exam during Orientation. The chemistry class you take will be determined by the results of that placement exam.

There are three different tracks in chemistry:

Track 1

CHEM 1403-1404: General Chemistry (fall, spring)
CHEM 1500: General Chemistry Lab (fall or spring, usually taken in the first year)

Track 2

CHEM 1604: Intensive General Chemistry (fall of first year)
CHEM 1500: General Chemistry Lab (fall or spring, usually taken in the first year) or *CHEM 1507: Intensive General Chemistry Lab* (if you place into it)

Track 3

CHEM 2045: Intensive Organic Chemistry (fall of first year)

CHEM 2046: Intensive Organic Chemistry (spring of first year)

CHEM 1507: Intensive General Chemistry Lab (spring of first year)

There are only four majors (biomedical engineering, chemical engineering, Earth and environmental engineering, and materials science) that require two semesters of chemistry. All other majors require only one semester. It is recommended that students fulfill this requirement in their first year, but in some cases it may be possible to postpone chemistry until the sophomore year after consultation with your adviser.

Note: Students who are considering the premedical curriculum must take a full year of chemistry and the appropriate lab in their first year, regardless of major.

THE ART OF ENGINEERING

What is required? One semester of *ENGI 1102: The Art of Engineering*

When? Either fall or spring of the first year (taken in the semester opposite *ENGL 1010: University Writing*).

Can I test out? No.

This course is a bridge between the science-oriented, high school way of thinking and the engineering point of view. Fundamental concepts of math and science are reviewed and reframed in an engineering context, with numerous examples of each concept drawn from all disciplines of engineering represented at Columbia. Nontechnical issues of importance in professional engineering practice such as ethics, engineering project management, and societal impact are addressed.

COMPUTER SCIENCE

What is required? One semester of a computer science programming course is required for all majors

When? First or second year.

Can I test out? It is unlikely. Consult with your adviser.

Students choose from one of the following, depending on their anticipated major:

ENGI 1006: Introduction to Computing for Engineers and Applied Scientists

COMS 1004: Introduction to Computer Science and Programming in Java

COMS 1005: Introduction to Computer Science and Programming in MATLAB

LAB

What is required? One semester of chemistry and/or physics laboratory work; selection will depend upon major

When? First or second year.

Can I test out? No.

Special note: In most cases, you may make your own decision as to whether you want to take a chemistry or physics lab. Students who choose chemistry lab should take it in the first year. Students who choose physics lab must wait until their second year. There are a few SEAS majors that specify either chemistry or physics lab (or require both). Students should consult with their adviser and/or the *Bulletin* before choosing a lab.

NONTECHNICAL REQUIREMENTS

What is required? 27 points of nontechnical coursework; 16–18 of these points are mandated by SEAS, and 9–11 points are electives

When? Before graduation.

Note: *University Writing (ENGL 1010)* must be taken in the first year.

Can I test out? No, but AP scores may be applied toward portions of the 27-point nontechnical requirement.

Required Nontechnical Courses (16–18 Points)

University Writing (ENGL 1010) 3 pts. Required in first year.

Core Humanities sequence: *Masterpieces of Western Literature and Philosophy (HUMA 1001-1002)*; *Introduction to Contemporary Civilization in the West (COCI 1101-1102)*; or a Global Core sequence. 6–8 pts. Recommended in second year.

Masterpieces of Western Art (HUMA 1121) or *Masterpieces of Western Music (HUMA 1123)* 3 pts. Can be taken at any time.
Principles of Economics (ECON 1105) 4 pts. Recommended in first or second year.

Elective Nontechnical Courses (Minimum of 9 Points)

Of the 27-point nontechnical requirement, 16–18 points will be fulfilled by taking the required courses listed above. The remaining 9–11 points (three or four classes) are at your discretion. Please consult the *SEAS Bulletin* for additional information on appropriate courses in each of the approved liberal arts disciplines: bulletin.engineering.columbia.edu/b-elective-nontechnical-courses.

UNIVERSITY WRITING

What is required? One semester of *University Writing (ENGL 1010)*

When? Either fall or spring of the first year (taken in the semester opposite ENGI 1102).

Can I test out? No.

University Writing is designed to help undergraduates develop the reading and writing skills they need to participate fully in the intellectual life of the University. The course gives special attention to close reading, rhetorical analysis, research, collaboration, and substantive revision. Refining their ideas and their prose through multiple drafts of their essays, students learn that writing is a skill that can be developed through practice.

PHYSICAL EDUCATION

What is required? Two courses

When? Before graduation.

Can I test out? No.

The physical education component of the Core emphasizes the importance of balancing mind and body. The department offers a variety of activities in the areas of aquatics, fitness, martial arts, team sports, and outdoor education.

Students who participate in an intercollegiate sport can receive physical education credit by registering for the appropriate team section of *PHED 1005: Intercollegiate Athletics*.

MAJORS AND MINORS

Columbia Engineering students must complete the requirements for a major. Major requirements can be found on the website of the *Columbia Engineering Bulletin*, bulletin.engineering.columbia.edu, listed under each department. Students will declare their major online during the first semester of their sophomore year. Students who are undecided should talk to their advising dean about ways to assess their options and narrow down the choices. Students may opt to declare one or more minors at the same time.

Double Minors/Double Majors: Students may declare more than one minor but may not use the same courses to satisfy the requirements of more than one minor. To double major, students are required to have approval from both departments, with a signed plan to complete all requirements within eight semesters. This plan must be approved by the Vice Dean for Undergraduate Programs in SEAS.

REGISTRATION ADVICE

You will be preregistered for either *University Writing* or *The Art of Engineering* for the Fall 2016 semester. You must also enroll in calculus and physics, and it is strongly recommended that you take chemistry. You are responsible for choosing the level and section of these classes as well as at least one other elective course. Using the Directory of Classes (columbia.edu/cu/bulletin/uwb), create a few sample schedules with alternate sections. For each course, write down the course title and section number, credits, and call number, and check to see if the class has an accompanying recitation or discussion section.

You will register online beginning on the Friday of New Student Orientation. You should already have received a mailing with an assigned UNI (Columbia login and email address) and password. You will use them to create an email account and log into Student Services Online (SSOL) at ssol.columbia.edu. To see when and where your preregistered classes meet, click on Schedule. Your registration appointment times are under Reg Appts.

Your schedule may not be complete at the end of the first registration appointment times. You will have the opportunity to finalize your schedule during the first weeks of classes, when there is a lot of movement in enrollment.

STUDY ABROAD

bulletin.engineering.columbia.edu/study-abroad

SEAS students interested in studying abroad must plan their schedules early and with care. Global Initiatives, in conjunction with the Office of Global Programs and Fellowships, helps students take part in intellectually rigorous international educational experiences that enhance and complement their Columbia education as well as their personal, academic, and professional growth. Students from every major should explore the possibilities that international education has to offer. Visit the Academic Resources Fair during Orientation, the annual Study Abroad Fair, the Global Initiatives Office (254 Mudd), and the Office of Global Programs and Fellowships (606 Kent) for personalized advising about the variety of study-abroad opportunities available.

FELLOWSHIPS

college.columbia.edu/students/fellowships

The Fellowships Office (606 Kent) helps students apply for national and international fellowships. Services range from ascertaining which fellowships are most appropriate given a student's academic performance, aspirations, and values, to helping applicants on such requirements as personal statements or research proposals, to preparing candidates through mock interviews. The goal is to give each student the necessary personalized training to submit the most compelling application possible.

ADVANCED STANDING

Columbia Engineering grants up to 16 credits earned from Advanced Placement (AP), General Certificate of Education Advanced Level Examinations (A levels), the International Baccalaureate Examination (IB), and other national systems. A complete description of policies, credits, and/or exemptions can be found in the *SEAS Bulletin*: bulletin.engineering.columbia.edu/advanced-placement. Please note that students are governed by the advanced-standing policies that are in place during their first year at Columbia.

Students who wish to receive credit may not register for courses at Columbia that cover similar or more basic material than the work already completed, nor may a student receive credit for two exams that cover the same material (for example, Calculus

AP and Mathematics A-Level). In some cases, the student must complete a particular course before credit will be awarded. Advanced standing credit is awarded prior to the sophomore year in accordance with the policies stated in that year's *SEAS Bulletin*. Advanced placement credit in appropriate nontechnical areas may be applied toward the 27-point nontechnical requirement.

Pending review by the appropriate department at Columbia, students whose secondary school work was in other national systems (such as the French baccalauréat) may be granted credit in certain disciplines for sufficiently high scores. The appropriate transcript should be submitted to the James H. and Christine Turk Berick Center for Student Advising.

Appropriate placement should not depend simply upon test scores and the credit you hope to receive upon evaluation of those scores. For some students, appropriate placement may mean forfeiting advanced credit to achieve stronger preparation in a subject area.

Entering students may receive up to 6 points of credit toward the Columbia degree for college courses taken after graduation from secondary school and prior to enrollment in SEAS. You must earn a minimum grade of B in order to receive credit. If you would like to exercise this option, you must consult with the Berick Center for Student Advising before enrolling.

Official transcripts for this work, along with catalog descriptions and a copy of the syllabus for each course, should be submitted to the Berick Center for Student Advising for review. There is no guarantee of credit, which will be awarded only upon approval by the CSA. If you plan to take summer classes through Columbia's Summer Session, you must obtain approval from the CSA prior to enrollment. Please be aware that students who have not yet matriculated in the University are not allowed to live on campus, so you will need to explore alternate housing options.

Grades for summer school classes taken prior to matriculation will not be calculated into the Columbia GPA and the classes might not count toward your eventual major, even if the summer classes are taken at Columbia.

Note: You will not be granted credit for courses taken at other colleges prior to your graduation from secondary school.

ADVANCED PLACEMENT CREDIT CHART

In order to receive AP credit, students must send official score reports to Columbia. The CEEB code is 2116.

SUBJECT	SCORE	CREDIT	REQUIREMENTS OR PLACEMENT STATUS CREDIT
Art History	5	3	No exemption from <i>HUMA 1121</i>
Biology	5	3	No exemption
Chemistry	4 or 5 4 or 5	3 6	Requires completion of <i>CHEM 1604</i> with grade of C or better. Requires completion of <i>CHEM 3045-3046</i> with grade of C or better.
Computer Science A	4 or 5	3	Exemption from <i>COMS 1004</i>
Economics Micro & Macro	5 & 4	4	Exemption from <i>ECON 1105</i> (Test must be in both with a score of 5 in one and at least 4 in the other.)
English Language and Composition	5	3	No exemption
Literature and Composition	5	3	No exemption
French Language	4 or 5	3	
Literature	4 or 5	3	
German	4 or 5	3	
Government and Politics United States	4 or 5	3*	Exemption from <i>POLS 1201</i>
Comparative	4 or 5	3*	Exemption from <i>POLS 1501</i>
History European	5	3	
United States	5	3	
Italian	4 or 5	3	
Latin	5	3	
Mathematics Calculus AB	4 or 5	3**	Credit reduced to 0 if <i>MATH 1101</i> is taken.
Calculus BC	4	3**	Credit reduced to 0 if <i>MATH 1101</i> is taken.
Calculus BC	5	6	Credit reduced to 0 if <i>MATH 1101</i> is taken or to 3 if <i>MATH 1102</i> is taken.
Music Theory	5	3	
Physics (6 credits maximum) C-MECH	4 or 5	3	Credit reduced to 0 if <i>PHYS 1401</i> or <i>1601</i> is taken. Credit reduced to 0 if <i>PHYS 2801</i> is taken and the final grade is C- or lower.
C-E&M	4 or 5	3	Credit reduced to 0 if <i>PHYS 1402</i> or <i>1602</i> is taken. Credit reduced to 0 if <i>PHYS 2801</i> is taken and the final grade is C- or lower.
Physics B	4 or 5	3	No exemption.
Spanish Language	4 or 5	3	
Literature	4 or 5	3	

*Credit is awarded upon completion of a 3000-level (or higher) course with a grade of C or higher.

**SEAS students with a 4 or 5 on Calculus AB or a 4 on Calculus BC must begin with *Calculus II*. If a SEAS student with these scores goes directly into *Calculus III*, he or she will have to go back and complete *Calculus II*. Students with A-level or IB calculus credit must start with *Calculus II*.

PREPARATION FOR FUTURE PROFESSIONAL STUDY

PREPROFESSIONAL ADVISING

cc-seas.columbia.edu/preprofessional

The James H. and Christine Turk Berick Center for Student Advising includes Preprofessional Advising for Columbia College and Columbia Engineering. Preprofessional advisers provide information for students planning a career in law, business, or one of the health professions. They advise and assist students throughout their four years and beyond, working most closely with students during their application year.

MEDICAL SCHOOL

If you are thinking about attending medical school, you should attend the Prehealth Advising meeting during Orientation. This program will introduce you to the premedical curriculum and advising system and give you detailed advice about planning your schedule.

LAW SCHOOL

Law schools do not require a specific course of study; they prefer that applicants have a broad background of knowledge. Admission to schools of law depends on the quality of academic work rather than on the field of study. However, it is important that you choose nontechnical electives that have substantial writing and reading components, to strengthen and demonstrate your writing and analytical skills.

BUSINESS SCHOOL

Admission to business school depends on the quality of overall academic work and related experiences. Students planning to attend a graduate school of business may major in whatever field interests them.

4-1 PROGRAM

This program allows SEAS students to earn a B.A. from Columbia College, as well as a B.S. from Columbia Engineering, in five years of study. SEAS students who plan to enter the 4-1 Combined Plan Program offered through Columbia College are advised to apply for admission in April of their third year. Final acceptance is contingent upon completion of the B.S. and the entire Columbia College Core Curriculum. Consult your adviser for more information.

NEW YORK STATE INITIAL TEACHING CERTIFICATION

SEAS students may qualify for New York State Initial Certification in either childhood education or adolescence education through the Barnard College Education Program. An information packet and application can be picked up at 336 Milbank Hall or downloaded from the website at education.barnard.edu.

FREQUENTLY ASKED QUESTIONS

Q. How many classes must I complete each semester to fulfill the basic requirements for graduation?

A. *Students should take an average of 16 points of credit (five or six classes) per semester in order to fulfill the 128 points needed to graduate in eight semesters. First-year students usually take five classes in their first semester.*

Q. As a first-semester SEAS student, what classes am I required to take?

A. *SEAS first years must take calculus, physics, and either University Writing (ENGL 1010) or The Art of Engineering (ENGI 1102) in their first semester (one or the other will be preregistered for you before you arrive for Orientation). Students should also be enrolled in chemistry in the fall, although in rare cases it may be postponed until the spring.*

Q. I don't know what level of calculus, chemistry, and/or physics I should be in.

A. *Placement tests will be given in chemistry and physics during Orientation week, and the results will be posted before the start of registration. Your AP scores and background in math will help determine correct placement.*

Q. Where can I find course descriptions, a complete listing of SEAS majors and minors, and a calendar of important dates like Thanksgiving and finals week?

A. *The SEAS Bulletin! You will receive a Bulletin when you check in for Orientation, but in the meantime you can access it at bulletin.engineering.columbia.edu.*

ACADEMIC RESOURCES AND GUIDES FOR STUDENTS

SEAS BULLETIN

bulletin.engineering.columbia.edu

From course descriptions and major requirements to rules, regulations, and disciplinary procedures, the *SEAS Bulletin* is the official source for answers to your academic questions.

DIRECTORY OF CLASSES

columbia.edu/cu/bulletin/uwb

The Directory of Classes contains a list of all courses offered in all undergraduate and graduate programs at Columbia University (with the exception of Teachers College). Students should use the *Bulletin* for registration purposes, as not all courses in the Directory are open to all students. See your adviser if you have any questions about which courses are available to you.

STUDENT SERVICES ONLINE

ssol.columbia.edu

Student Services Online (SSOL) provides instant access to student records, including grades, registration appointments, class schedules, financial aid information, and account details. Official transcripts may also be ordered via SSOL. To access this information, students must first activate their Columbia UNI at uni.columbia.edu.

Among the many useful components is the Degree Audit Report (DAR). The DAR is a way for students to monitor their progress toward degree completion. Keep in mind that the DAR is a tool and not the authoritative transcript. All degree and major requirements are set forth in your school's *Bulletin*.

VERGIL

vergil.registrar.columbia.edu

Vergil contains consolidated course information from the *Bulletin* and Directory of Classes and allows you to search for courses by instructor, date and time, department, subject area, key words, and more. Vergil's Course Planner and graphical calendar interface enable you to keep track of courses of interest and export your projected schedule to your other calendar apps. You can also browse courses, syllabi, and textbook information,

export your course selections to your SSOL Wish List, and be ready to register as soon as your appointment time arrives.

DEPARTMENTAL RESOURCES

A number of academic resources are available through the departments. For additional information regarding each of these services, it is best to refer to an individual department's website.

Faculty and teaching assistant office hours are posted on course syllabi, departmental websites, and faculty office doors. Office hours are times set aside by a faculty member to meet with students to clarify concepts, discuss assignments, and mentor potential majors. You should take advantage of these hours to ask questions, address concerns, and connect with faculty.

Help Rooms are available for subjects taught in a number of departments, including physics, statistics, and mathematics. During these open hours, you may ask questions of faculty and graduate assistants. Help Room schedules are available on the relevant departmental websites.

The **Writing Center** is located in 310 Philosophy Hall. It is staffed by graduate-student tutors and provides writers of all levels and abilities—from first-year students to seniors working on their theses—with the opportunity to have detailed conversations about their writing with experienced readers. Tutors will work with students at any stage in the writing process. Students may sign up for appointments at the Center or simply drop by during operating hours. You may contact the Writing Center at 212-854-3886 or at uwp@columbia.edu. For more information, see college.columbia.edu/core/uwp/writing-center.

TUTORING

cc-seas.columbia.edu/csa/tutoring

The James H. and Christine Turk Berick Center for Student Advising and provides peer tutoring in a broad range of introductory courses. Trained tutors assist students with mastering course content, sharpening testing skills, and maximizing their potential for academic success. Students should meet with their academic adviser to request a tutor as soon as the need becomes apparent. Additionally, the CSA also offers Academic Success Seminars throughout each semester. The topics of these seminars range from time management and note-taking to stress management. Seminars are open to all students.

COLUMBIA UNIVERSITY LIBRARIES

library.columbia.edu

The Columbia University Libraries is made up of 21 distinct libraries. They are wonderful gathering places for pursuing scholarly research, for learning about and using information technology, and for writing and studying. They offer a rich collection of print and electronic resources.

The Library Information Office, located in Butler Library, Room 201, answers general questions about any of the Libraries' services and resources. Workshops are offered throughout the year to familiarize students with the available services.

BOOKSTORE

columbia.bncollege.com

The Columbia bookstore is located in the basement of Lerner Hall. It is a full-service bookstore for the purchase of textbooks as well as a variety of other books of all categories, stationery, Columbia apparel, and household items for dormitory living.

THE FU FOUNDATION SCHOOL OF ENGINEERING AND APPLIED SCIENCE

WORKSHEET

This worksheet is designed to help you start thinking about your first semester and potential courses of study at Columbia, as well as to prepare for your first meeting with your adviser.

Name: _____ UNI: _____ Cell phone #: _____

Using the online resources listed below, please create possible schedules for the fall term. Keep in mind that in your first term you must take Calculus, Physics, Chemistry, and either University Writing or The Art of Engineering. Your level of Physics, Chemistry, and Calculus will depend on AP/IB scores as well as placement exams given during New Student Orientation. Indicate several choices for your fifth course.

- *SEAS Bulletin* (bulletin.engineering.columbia.edu): a list of courses and descriptions of all majors
- Directory of Classes (columbia.edu/cu/bulletin/uwb): a list of all courses offered at Columbia University*
- Vergil (vergil.registrar.columbia.edu): an online scheduling tool that links to the *Bulletin* and Directory

1. Calculus (please indicate anticipated level): _____
2. Physics (please indicate anticipated level): _____
3. Chemistry (please indicate anticipated level): _____
4. The Art of Engineering/University Writing _____
5. _____

QUESTIONS:

Use the space below to write down any questions or concerns you would like to discuss with your adviser. These may be academic or nonacademic, and they may pertain to the transition to college, the role of your adviser, registration details, personal long- and short-term goals, extracurricular interests, etc.

**Not all classes are open to Columbia Engineering students. Check the "Open To" field for the relevant class in the online Directory, and ask your adviser if you have any questions.*



TRANSFER AND COMBINED PLAN

THE BASICS

- Transfer students are expected to graduate in eight semesters, including terms completed before entering Columbia.
- Extended time will not be granted to finish a particular major.
- Some majors may not be available to transfer students.
- A normal course load for Columbia students is four to five academic classes a semester.
- Transfer students must complete a minimum of 60 credits at Columbia.

JAMES H. AND CHRISTINE TURK BERICK CENTER FOR STUDENT ADVISING

You will be assigned an adviser who will follow your academic progress throughout your time at Columbia College (CC) or Columbia Engineering (SEAS). You are encouraged to talk with your adviser about a variety of issues, including:

- general academic questions, concerns, or difficulties
- registration questions and problems
- changes in academic program, in consultation with faculty advisers
- receiving transfer, AP/IB/GCE, or summer course credit
- premed and prelaw requirements and other academic opportunities
- understanding University policies and petitioning for exceptions to academic policy
- planning to study abroad
- progress toward and completion of requirements for the degree
- personal problems and concerns
- leaves of absence
- referrals to other resources on campus
- future life plans

TRANSFER CREDIT EVALUATIONS

The courses you have taken at outside institutions (or at Columbia while not matriculated as a Columbia College or SEAS student) have been reviewed. For courses that are

substantively similar to those taught at CC or SEAS, credit has been tentatively awarded. The Transfer Credit Evaluation (TCE) or the Combined Plan Transfer Evaluation that you received this spring identifies which credits from your prior or home institution have been accepted for transfer to your Columbia degree.

Some TCEs may note that specific course syllabi are needed for further credit review. Please forward any additional paperwork directly to the Berick Center for Student Advising.

Credit and course approvals are two separate issues. Credit gets you closer to the 124 (CC) or 128 (SEAS) points you need to complete your Columbia degree. Course approval means that you have satisfied a particular requirement. The credit shown on your TCE is general degree credit, unrelated to any course approvals. Sometimes (but rarely) a course approval for a requirement is given without any corresponding credit.

To receive the B.A. degree from Columbia College or the B.S. degree from SEAS, you must complete a minimum of 60 points of credit at Columbia. For CC students, no more than 64 points from outside sources will be counted toward the degree, and no more than 68 points for students at SEAS. Outside sources of credit include transfer credit from another college and advanced standing earned on the basis of Advanced Placement, International Baccalaureate, and other standardized examinations. Credit is not granted for college-level courses taken while in high school.

You have been assigned a class standing and an expected graduation date based on previously completed academic work. Your class standing may be changed upon receipt of an updated transcript. All students at CC and SEAS are expected to graduate within eight semesters, including semesters completed before entry. The expected graduation date cannot be extended without petitioning the Committee on Academic Standing. These petitions are granted only for exceptional reasons, which do not include requests for extra time to complete a specific major. You are expected to work with your adviser to create a plan to graduate by the assigned graduation date.

A final credit evaluation is completed when you matriculate and a final official transcript and course descriptions have been received.

COURSE APPROVAL FOR THE MAJOR/CONCENTRATION AND CORE

Course approval for your major/concentration needs to be carried out by a departmental representative in your intended major department. Such exemptions cannot be granted by the Berick Center for Student Advising. You will have an opportunity to speak with departmental representatives during New Student Orientation, at the Academic Resources Fair, and during the first few weeks of the semester. It is recommended that transfers entering as fifth-semester juniors with an expected graduation of May 2018 make appointments with their faculty adviser as soon as possible. Make sure that you bring appropriate course descriptions and transcripts so you can discuss major/concentration requirements.

You must petition to request course approval for any of the Core Curriculum requirements. During the summer, your adviser will discuss the petition procedure with you.

COLUMBIA COLLEGE: THE CORE CURRICULUM

Please review the detailed outline of the Columbia College Core Curriculum in the CC section, or visit the website at college.columbia.edu/core.

Core Curriculum requirements:

- *Masterpieces of Western Literature and Philosophy (HUMA 1001-1002)* (two semesters)
- *University Writing (ENGL 1010)* (one semester)
- Science (three semesters from the approved course list)
- Foreign language (four semesters or the equivalent)
- *Introduction to Contemporary Civilization in the West (COCI 1101-1102)* (two semesters)
- *Masterpieces of Western Art (HUMA 1121)* (one semester)
- *Masterpieces of Western Music (HUMA 1123)* (one semester)
- Global Core (two one-semester courses from the approved course list)
- Physical education (*PHED 1001-1002*) (two semesters, plus swim test)

LITERATURE HUMANITIES

What is required? *HUMA 1001-1002: Masterpieces of Western Literature and Philosophy*

When? Fall and spring semester of the first year.

May I test or place out? It is very unlikely that courses taken at other institutions will be considered adequate substitutions for Lit Hum. If you feel strongly that you do have a case for exemption, please contact your adviser.

Special note: All entering students taking Lit Hum their first year should be prepared to discuss the first twelve books of *The Iliad* at the introductory lecture, which meets during the week of New Student Orientation.

Transfer students will be presented with a copy of *The Iliad*, a gift from The Columbia College Alumni Association, when they arrive on campus in August. We suggest students prepare for the first day of class by reading either an electronic version of *The Iliad* or a copy borrowed from the local library.

The edition used in Literature Humanities classes is the Lattimore (2011) translation.

UNIVERSITY WRITING

What is required? *ENGL 1010: University Writing.*

When? This course must be taken in the first year, provided you have not been granted exemption from the requirement.

May I test or place out? You may petition to receive exemption from the *University Writing* requirement by submitting a portfolio consisting of three essays written for a course taken at your prior institution. The petition form and essays may be sent to the Berick Center for Student Advising.

CONTEMPORARY CIVILIZATION

What is required? *COCI 1101-1102: Introduction to Contemporary Civilization in the West, I and II*

When? Fall and spring semester of second year.

May I test or place out? It is very unlikely that courses taken at other institutions will be considered adequate substitutions for CC. If you feel strongly that you do have a case for exemption, please contact your adviser.

ART HUMANITIES

What is required? *HUMA 1121: Masterpieces of Western Art*

When? Before graduation.

May I test or place out? Students may not test out of this requirement. Exemption from Art Hum may be obtained by filing a course substitution request. Exemption must be requested during your first semester at Columbia. For more information, please visit the Center for the Core Curriculum in 202 Hamilton Hall.

MUSIC HUMANITIES

What is required? *HUMA W1123: Masterpieces of Western Music*

When? Before graduation.

May I test or place out? While it is very difficult to obtain exemption from this course, students who are exceptionally knowledgeable in this subject may be exempted by passing an Exemption Exam or by filing a course substitution request. Exemption must be requested during your first semester at Columbia. The Exemption Exam is usually offered on the first Friday of the fall semester and may be taken only once. For more information, please visit the Center for the Core Curriculum in 202 Hamilton Hall.

GLOBAL CORE

What is required? Two courses

When? Before graduation.

May I test or place out? Students may petition for exemption from one or both of the requirements based on course-work completed at their previous institution. Your adviser will provide information on the process. Students may also “double count” a Global Core course toward major/concentration requirements.

Special note: The Global Core course approval process is not the same as the College credit approval process.

SCIENCE

What is required? Three courses

When? Before graduation.

May I test or place out? Students may not test out of the requirement. It is possible for transfer students to be granted partial Core course approval for courses in the natural sciences, mathematics, computer science, and statistics at their prior institution. You must complete at least one of the courses for the requirement at Columbia. Please note that social science courses are not approved for the science requirement, although anthropology courses that cover biological foundations of the discipline may be considered. Likewise, psychology courses that cover biological foundations of the discipline may be considered, but not those that focus on social or abnormal psychology. Petitions are reviewed by the faculty Subcommittee on Science Instruction.

Special notes: The science requirement may not be fulfilled using only quantitative (computer science, mathematics, and statistics) courses. After matriculating at Columbia, students may not use Barnard College courses to fulfill the science requirement unless otherwise noted.

FOREIGN LANGUAGE

What is required? Satisfactory completion of the fourth semester of a foreign language (typically Intermediate Level II) or demonstrated equivalent knowledge. The requirement may also be fulfilled by the successful completion of an advanced-level foreign language or literature course that requires 1202 or the equivalent as a prerequisite.

When? It is recommended that you either begin or continue a language during the first year.

May I test or place out? Yes. Exemption or placement level can be determined by AP scores, SAT II scores, or departmental placement tests. Consult your adviser and see Appendix A for more information.

Special notes: If you are continuing your studies in a language, you must take a departmental placement exam to determine your appropriate course level. Placement exams for many languages will be given during New Student Orientation. If your native language is not English and the language of instruction in your secondary school was in your native language, you are not required to take an additional foreign language or a placement test.

PHYSICAL EDUCATION

What is required? Two courses and a swim test

When? Before graduation.

May I test or place out? Students may not test out of the requirement. However, transfer students may receive exemption from one of the two physical education requirements with departmental approval if transfer credit for approved physical education courses is awarded on a student's TCE. In addition, students may receive physical education credit for participating in intercollegiate athletics. Please speak with your adviser for more details.

HONORS

Transfer students are eligible for honors at Columbia College. Students do not apply for College honors (cum laude, magna cum laude, summa cum laude) or Phi Beta Kappa. The faculty Committee on Honors, Awards, and Prizes reviews students' files during their final semester and analyzes their performance, taking into account the breadth, depth, and rigor of students' academic programs in addition to the grades they received. Departmental honors are awarded by each department. Some departments in the College require a thesis or research project as well as a specific GPA in order to be eligible for departmental honors. Students should consult with their departmental advisers.

Please review the CC section in this guide for information on the following:

- Study Abroad (p. 9)
- Fellowships (p. 12)
- Preparation for Future Professional Study (p. 12)
 - Medical School
 - Law School
 - Business School
 - New York State Teaching Certification
- Academic Resources and Guides for Students (p. 13)
 - Bulletins
 - SSOL
 - Departmental Resources
 - Faculty and TA Office Hours
 - Help Rooms
 - Writing Center
- Tutoring (p. 14)
- Columbia University Libraries (p. 14)
- Bookstore (p. 14)

SEAS: SELECTING YOUR CLASSES

Consult your adviser for information on course approvals for first-year/sophomore and nontechnical requirements. We recommend that you take any outstanding required courses as soon as possible. Course approval for major requirements can be given only by faculty and can be reviewed after your arrival on campus. All SEAS students must complete the following requirements:

- Calculus (proficiency through *Calculus III* or *IV*) and additional math courses as determined by major selection
- General chemistry (minimum one semester)
- Physics (minimum two semesters)

- Laboratory requirement (minimum one semester)
- Computer science (*ENGI 1006*, *COMS 1004*, or *COMS 1005*: minimum one semester)
- *The Art of Engineering* (*ENGI 1102*)
- *University Writing* (*ENGL 1010*) (one semester unless granted course approval, as determined by petition and portfolio review)
- *Principles of Economics* (*ECON 1105*)
- Other nontechnical coursework (27 point minimum, including *University Writing*, *Principles of Economics*, Art or Music Humanities, and one of the humanities sequences: Contemporary Civilization, Literature Humanities, or two courses from the approved Global Core list)
- Physical education (two semesters)

Technical Requirements

Please review the SEAS section in this guide for more information on the following first-year/sophomore requirements, available courses/tracks, and appropriate placement.

CALCULUS

- What is required?** All SEAS students are required to take calculus. Proficiency through *Calculus IV* is required for many SEAS majors.
- When?** Fall of the incoming year if course approval is not granted.
- May I test or place out?** You should discuss with your adviser partial or full math course approval based on equivalent courses from your prior institution.

CHEMISTRY

- What is required?** At least one semester of chemistry (possibly two, depending on your declared major)
- When?** Fall of the incoming year if course approval is not granted.
- May I test or place out?** You should discuss with your adviser partial or full chemistry course approval based on equivalent courses from your prior institution.

PHYSICS

- What is required?** At least two semesters of introductory physics; some majors may require one or more additional course.
- When?** Fall of the incoming year if course approval is not granted.
- May I test or place out?** You should discuss with your adviser partial or full physics course approval based on equivalent courses from your prior institution.

LAB

- What is required?** One semester of chemistry and/or physics laboratory work; selection will depend upon major
- When?** As soon as possible.
- May I test or place out?** You should discuss with your adviser lab course approval based on an equivalent course from your prior institution.

COMPUTER SCIENCE

- What is required?** One semester of a programming course (*ENGI E1006*, *COMS 1004*, or *COMS 1005*)
- When?** As soon as possible.
- May I test or place out?** You should discuss computer science course approval based on an equivalent course from your prior institution with your adviser.

THE ART OF ENGINEERING

- What is required?** One semester of *ENGI 1102: The Art of Engineering*
- When?** Must be taken in the first year at Columbia.
- May I test or place out?** Students entering as juniors are exempt from this requirement. Sophomore transfers should consult with your adviser about approval based on an equivalent course from your prior institution.

NONTECHNICAL REQUIREMENTS

What is required? 27 points of nontechnical coursework; 16–18 of these points are mandated by SEAS, and 9–11 points are elective

When? Before graduation.

May I test or place out? Students may not test out, but it is possible for AP scores or approved courses taken at your prior institution to be applied toward the 27-point nontechnical requirement. You should discuss course approvals with your adviser.

UNIVERSITY WRITING

What is required? *ENGL 1010: University Writing*

When? Entering fall or spring, if course approval not granted.

May I test or place out? Students may petition to receive exemption from the *University Writing* requirement by submitting a portfolio consisting of three essays written for a course taken at their prior institution. The essays may be sent as graded or ungraded papers to the Berick Center for Student Advising.

PRINCIPLES OF ECONOMICS

What is required? *ECON 1105: Principles of Economics*

When? As soon as possible, if course approval is not granted.

May I test or place out? You should discuss with your adviser an exemption based on the Economics AP/IB or approved course(s) taken at your prior institution.

Special note: Introductory economics courses taken outside of Columbia must cover both microeconomics and macroeconomics.

PHYSICAL EDUCATION

What is required? Two courses

When? Before graduation.

May I test or place out? Students may not test out of the requirement. However, transfer students may receive exemption from one of the two physical education requirements with departmental approval if transfer credit for approved physical education courses is awarded on a student's TCE. In addition, students may receive physical education credit for participating in intercollegiate athletics. Please speak with your adviser for more details.

HONORS

Transfer students are eligible for honors at SEAS. Students do not apply for Latin honors (cum laude, magna cum laude, summa cum laude), which are awarded as follows: no more than 5 percent summa cum laude, 10 percent magna cum laude, and 10 percent cum laude.

Please review the SEAS section in this guide for information on the following:

- Study Abroad (p. 22)
- Fellowships (p. 22)
- Preparation for Future Professional Study (p. 24)
 - Medical School
 - Law School
 - Business School
 - New York State Teaching Certification
- Academic Resources and Guides for Students (p. 25)
 - Bulletins
 - SSOL
 - Departmental Resources
 - Faculty and TA Office Hours
 - Help Rooms
 - Writing Center
- Tutoring (p. 25)
- Columbia University Libraries (p. 26)
- Bookstore (p. 26)

COMBINED PLAN STUDENTS

This section provides information regarding the Combined Plan transfer credit process. You will have already received a letter outlining your academic status and any first- and second-year requirements you need to complete. Please meet with your departmental faculty adviser during New Student Orientation to plan your course sequence for your major.

Listed below are the requirements for the first two years of study in SEAS, as laid out in the articulation agreements with Combined Plan schools.

Requirements in the first two years are:

- 27 points of nontechnical work, including a writing-intensive course and one course in economics
- Computer science
- Calculus through *Calculus IV*
- Additional math*
- Chemistry
- Physics
- Lab (physics and/or chemistry)
- Other technical electives required by the department

Combined Plan students are automatically exempt from the first-year/sophomore professional course except for electrical engineering majors, who are required to take the equivalent of *ELEN 1201: Introduction to Electrical Engineering*.

*Check with your department for additional math requirements.

To view your major program requirements for the third and fourth years, please refer to the *SEAS Bulletin*. All students are advised that the Combined Plan Program must be completed within a two-year period. Additional time is not permitted. It is your responsibility to clear all remaining requirements for your B.A. with your home institution. Students must meet the residency requirement of 60 credits in four consecutive semesters (not including summer) at Columbia to graduate.

COMBINED PLAN TRANSFER CREDIT EVALUATION

The Combined Plan Transfer Credit Evaluation reviews courses taken at prior institution(s). Only credit-bearing courses with a B or better are eligible for transfer or exemption credit. It is important to note that the Berick Center for Student Advising reviews only first- and second-year foundation requirements. The relevant academic department advises students in their major, as well as granting any engineering-specific exemptions.

EXPLANATION OF YOUR CREDIT AND CLEARANCE EVALUATION LETTER

Your academic credential form from the Berick Center for Student Advising outlines four areas: major, required coursework in progress, first-year/sophomore foundational requirements still to complete, and notes.

Major: It is not possible to accommodate a change of program after your arrival at Columbia.

Required coursework in progress: If you are currently taking a course that is required for the Combined Plan Program, it will be noted as “in progress” on the clearance form. When we receive your official transcript with a grade of B or better, “in progress” courses will be counted toward your degree requirements.

First-year/sophomore requirements still to complete: Any missing requirements from the first two years of foundational courses will be noted. In some cases, these requirements can be completed the summer before matriculation at SEAS, as subsequent classes will build on the material covered in these courses.

Notes: This area provides suggestions and clarification for deficiencies noted or for classes that may count toward the major. In some cases, more information is needed to evaluate a course. We may also include information about course equivalencies for engineering-specific courses, which must be evaluated by the department.

In most cases, students receive 68 advanced standing credits, regardless of how many were already earned at their home institutions. A grade of B or better must be earned in order to receive credit.

REQUESTING ADDITIONAL EXEMPTIONS

You will work with your adviser in the Berick Center for Student Advising to request exemptions for the first two years' requirements. You will work with your major department adviser to request exemptions for the major requirements. If syllabi are needed for further evaluation, you will be notified in the notes section of your credit and clearance evaluation letter. It is strongly suggested that you bring to Columbia a folder that includes a course description and syllabus for each class, especially those courses for which you may request exemption by the department. It will make the process much smoother when you meet with your major adviser.

DEPARTMENT CONTACTS FOR COMBINED PLAN STUDENTS

Applied Mathematics: Prof. Qiang Du, 212-854-8139, qd2125@columbia.edu

Applied Physics: Prof. Nanfang Yu, 212-854-2196, ny2214@columbia.edu

Biomedical Engineering: Prof. Clark Hung, 212-854-6542, cth6@columbia.edu

Chemical Engineering: Prof. Daniel Esposito, 212-854-2648, de2300@columbia.edu; Prof. Scott Banta, 212-854-7531, sbanta@cheme.columbia.edu; Prof. Christopher Durning, 212-851-8161, cjd2@columbia.edu

Civil Engineering and Engineering Mechanics: Prof. Shiho Kawashima, 212-854-3143, s-kawashima@columbia.edu

Computer Engineering: Prof. Charles Zukowski, 212-854-2073, caz@columbia.edu

Computer Science: Prof. Stephen Edwards, 212-939-7019, sedwards@cs.columbia.edu; Kathryn Angeles, advising@cs.columbia.edu

Earth and Environmental Engineering: Prof. Xi Chen, 212-854-3787, xichen@columbia.edu

Electrical Engineering: Prof. John Kymissis, 347-850-0235, ik2174@columbia.edu

Industrial Engineering and Operations Research: Carmen Ng, 212-854-4351, carmen@columbia.edu; Dr. Jenny Mak, 212-854-0757, jenny@columbia.edu

Materials Science: Prof. Katy Barmak, 212-854-8267, katayun.barmak@columbia.edu

Mechanical Engineering: Mel Francis, 212-854-3874, mef2@columbia.edu

Academic Integrity

Academic integrity defines a university and serves as a cornerstone of the community. At Columbia, students participate in an academic enterprise that honors intellectual work and respects its origins. It is important to the learning process to be able to synthesize information and produce original work. A Columbia education emphasizes not only the student's mastery of intellectual material within a discipline but also the development of the individual's moral character and personal ethics. Columbia requires that students take full responsibility for their actions. Compromising academic integrity not only jeopardizes a student's academic, professional, and social development; it violates the standards of our community. As a Columbia student, you are responsible for making informed choices with regard to academic integrity both inside and outside the classroom.

HONOR CODE

The Student Councils of Columbia College and SEAS, on behalf of their respective student bodies, have resolved that maintaining academic integrity is the preserve of all members of our intellectual community.

As a consequence, all Columbia College and SEAS students make the following pledge:

We, the undergraduate students of Columbia University, hereby pledge to value the integrity of our ideas and the ideas of others by honestly presenting our work, respecting authorship, and striving not simply for answers but for understanding in the pursuit of our common scholastic goals. In this way, we seek to build an academic community governed by our collective efforts, diligence, and Code of Honor.

In addition, all Columbia College and SEAS students are committed to the following honor code:

I affirm that I will not plagiarize, use unauthorized materials, or give or receive illegitimate help on assignments, papers, or examinations. I will also uphold equity and honesty in the evaluation of my work and the work of others. I do so to sustain a community built around this Code of Honor.

VIOLATIONS

Violations of academic integrity include but are not limited to:

Plagiarism

- Self-plagiarism (submitting work for one course that has been already used for another course)
- Cheating on examinations or tests
- Collaborating on assignments without the instructor's permission
- Receiving unauthorized assistance on an assignment
- Copying computer programs
- Falsification, forgery, or misrepresentation of information in coursework, lab work, or on any application, petition, or documents submitted to the College/SEAS or a University official
- Fabrication of credentials in materials submitted to the University for administrative or academic review
- Facilitating academic dishonesty (selling of or providing notes, exams, papers, etc.)
- Unauthorized circulation or sharing of past or present course materials
- Lying to a faculty member, dean, adviser, or University officer
- Obtaining advance knowledge of exams or other assignments without permission
- Violating specified testing conditions
- Failing to safeguard one's own work

PLAGIARISM

Plagiarism is the copying, paraphrasing, or employing of the words and/or ideas of others without proper citation. This is one of the most prevalent forms of academic dishonesty and the one students commonly have the most difficulty understanding. If you are uncertain how to cite properly from any source, check with course instructors, University librarians, and Writing Center staff before submitting your work. Ignorance of proper citation methods does not absolve you of responsibility.

DEAN'S DISCIPLINE

A student charged with a violation of academic integrity is notified and provided the opportunity to respond through the Dean's Discipline process. If the student is found responsible for a violation, sanctions will be issued upon consideration of the specifics of the case, institutional precedent, disciplinary history, aggravating circumstances, and community impact. A student found responsible for an academic integrity violation can expect to receive a minimum sanction of disciplinary probation and may be suspended or expelled from the University.

Additionally, students found responsible for violations of academic integrity may be required to report such offenses on future applications to graduate and professional schools. Such offenses will also be noted on recommendations for Latin honors and Phi Beta Kappa. The parents or guardians of dependent students may be notified when a student is no longer in good disciplinary standing. The University reserves the right to indicate disciplinary suspension or expulsion on a student's academic transcript.

STRATEGIES FOR MAINTAINING ACADEMIC INTEGRITY

Columbia classes are challenging, and frequently the workload and grading standards greatly exceed students' high school experiences. When students, pressed for time, unprepared for an assignment or exam, or anxious about the need to earn a high grade, choose to cheat, it compromises the integrity of our academic community, shows disrespect to instructors and classmates, and deprives those students of the opportunity to learn.

Students should be prepared and consider the following when approaching their coursework:

- Understand instructors' criteria for academic integrity and their policies on citation and group collaboration.
- Clarify any questions or concerns about assignments with instructors as early as possible.
- Develop a timeline for drafts and final revision of assignments and begin preparation in advance.
- Always acknowledge other people's opinions and theories by citing their words and indicating sources.
- Do not collaborate on assignments unless specifically permitted by the instructor.

- If you are feeling overwhelmed, burdened, or pressured, utilize campus resources such as the Berick Center for Student Advising, and Counseling and Psychological Services.

Campus Resources

The following is a compilation of programs, resources, and services that will help you achieve your goals both in and outside the classroom. For more information, please consult the listed web addresses or talk with your adviser.

JAMES H. AND CHRISTINE TURK BERICK CENTER FOR STUDENT ADVISING

cc-seas.columbia.edu/csa

The Berick Center for Student Advising (CSA) provides an integrated advising experience for all students in Columbia College and SEAS. CSA brings together, under one roof, general academic advising, Academic Success Programs, the Columbia Undergraduate Scholars Program, and Preprofessional Advising. Students are assigned an adviser who works with them throughout their time at Columbia. Advisers help plan academic programs each semester, answer questions about degree and Core requirements (for CC) and first-year/sophomore and nontechnical requirements (for SEAS), and help address any other questions or concerns. Advisers work collaboratively with faculty and other campus offices and resources to help engender student success.

UNDERGRADUATE STUDENT LIFE

cc-seas.columbia.edu/studentlife

Undergraduate Student Life (USL) is comprised of Multicultural Affairs, Residential Life, and Student Engagement. Collectively, these offices foster a vibrant community by promoting inclusivity, encouraging responsibility, and creating and supporting opportunities for students to develop connections within and beyond Columbia's campus. Throughout the year, USL supports community events; provides leadership, cultural, and civic engagement programs and opportunities; offers diversity education and training; supports identity development and exploration; and advises students, student organizations, and residential communities.

MULTICULTURAL AFFAIRS

cc-seas.columbia.edu/oma

The Office of Multicultural Affairs (OMA) promotes an inclusive campus community by acting as an educational resource and providing a supportive environment for intercultural communication and intergroup dialogue. OMA facilitates student engagement with many facets of diversity, including race and ethnicity, socioeconomic status, country of origin, and sexual orientation and gender identity/expression. Offering programs in diversity education, social justice, leadership development, and mentoring, OMA also advises cultural and identity-based student organizations. In addition to first-generation students, LGBTQ students, and students of color, OMA works with international students and families through all phases of the student experience.

RESIDENTIAL LIFE

cc-seas.columbia.edu/reslife

Residential Life comprises a team of students, faculty, and professional staff who strive to enhance the quality of the residential experience by cultivating an atmosphere conducive to educational pursuits and developing community among the student body. This team includes resident advisers (RAs), undergraduate students who will live in the dormitories and serve as peer mentors and educators. Residential Life helps facilitate connections between students and their hallmates, provides programming opportunities, and supports shared community standards. Residential Life staff provide guidance through any challenges students may experience adjusting to residential living at Columbia. Fraternity and Sorority Life is also a vibrant part of the residential experience and Columbia community.

STUDENT ENGAGEMENT

cc-seas.columbia.edu/engagement

Student Engagement is committed to building a strong sense of campus community by providing programming that enhances leadership skills, fosters community engagement, and encourages the exploration of the variety of cocurricular opportunities available to students at Columbia. Student Engagement staff advise the CC and SEAS class councils, as well as a broad range of student organizations recognized by the three student governing boards, and provide support for a host of community traditions and celebrations. Students can find opportunities for community building, social interaction, and participation in campus life through programs and events supported by Student

Engagement, including the New Student Orientation Program, Urban NY, Alternative Break, and more.

STUDENT CONDUCT AND COMMUNITY STANDARDS

studentconduct.columbia.edu

Student Conduct and Community Standards (SCCS) works closely with many other Columbia University offices to ensure that your community is safe, honest, and responsible. One of the ways SCCS meets this goal is by implementing the Dean's Discipline process when a student is alleged to have violated a Columbia policy.

SEXUAL RESPECT

sexualrespect.columbia.edu

Columbia University, Barnard College, and Teachers College are committed to fostering an environment that is free from gender-based discrimination and harassment, including sexual assault and all other forms of gender-based misconduct. The University recognizes its responsibility to increase awareness of such misconduct, prevent its occurrence, support students who experienced gender-based misconduct, and deal fairly and firmly with students who violate University policy. In addressing issues of gender-based misconduct, all members of the University must come together to respect and work together in a manner consistent with our deeply held academic and community values.

CENTER FOR CAREER EDUCATION

cce.columbia.edu

The Center for Career Education (CCE) works with undergraduate students to help them define career goals and gain meaningful work experiences through a wide variety of programs and services. These include individual career counseling, workshops, speaker events, and online resources to help with career planning and all phases of securing a job, including applications, interviewing, networking, and negotiations. CCE maintains LionSHARE, an internship/job database that allows students to set up a job agent and be notified daily of internship and full-time employment opportunities. CCE runs a domestic and international internship program, and it hosts career fairs, in-

dustry showcases, and employer site visits regularly throughout the academic year. CCE also counsels students on their choice of major as it pertains to their future professional life, as well as the decision to pursue graduate school, and works to connect current students with alumni.

INTERNATIONAL STUDENTS AND SCHOLARS OFFICE

columbia.edu/cu/isso
212-854-3587

The International Students and Scholars Office (ISSO) is the only University office authorized to oversee students' immigration status. The ISSO offers full advisory and documentation services for international students and serves as a source of comprehensive and up-to-date information on Department of Homeland Security and Department of State regulations that affect international students throughout their program of study at Columbia. The ISSO offers information sessions throughout the academic year on employment and provides free access to online tax-preparation software to generate any nonresident federal tax forms or tax returns that may be required. The ISSO advisory staff may be contacted in person during office hours on a walk-in basis, by email, or by telephone.

STUDENT SERVICES

Overview of Student and Administrative Services
sas.columbia.edu

Computing Support
columbia.edu/cu/cuit

Housing and Dining
housing.columbia.edu
dining.columbia.edu

Mail Services
mailservices.columbia.edu

Registrar
registrar.columbia.edu

Student Financial Services
sfs.columbia.edu

Student Financial Services (SFS) is responsible for monitoring your student account. The student account is a record of the charges and credits that occur during your registration at Columbia. Charges may include tuition, room, meals, health services, and other fees. Credits may include financial aid, personal payments, and non-University loans.

Student Account Questions: 212-854-4400

COLUMBIA HEALTH

health.columbia.edu

Columbia Health offers a comprehensive range of routine medical care, self-care options, individual and group counseling, health education, nutritional support, and extensive outreach on issues pertinent to your well-being. Most services are offered without an additional charge because you have paid the Columbia Health Fee, which is mandatory for all full-time students and students living in University housing.

HEALTH INSURANCE AND IMMUNIZATIONS

health.columbia.edu/insurance

health.columbia.edu/immunization

All students are required to provide documentation of immunization against measles, mumps, and rubella (MMR) and to make an informed decision online regarding meningitis. In addition, by University mandate, all full-time students are required to have medical insurance coverage for both inpatient and outpatient medical and psychological care, emergency services, and all other services not available on campus through Medical Services, such as lab tests, x-rays, and prescriptions. For this coverage, you may choose either to enroll in the plan offered by Columbia or to waive the Columbia plan and carry a comparable alternate insurance plan.

MEDICAL SERVICES

health.columbia.edu/medical-services

Medical Services (MS) offers care for illness or injury, wellness programs, immunizations, allergy shots, and a travel medicine program. MS also provides well-woman care, contraception, pregnancy and sexually transmitted infection (STI) testing, integrative medicine services, and referral services.

COUNSELING AND PSYCHOLOGICAL SERVICES

health.columbia.edu/services/cps

Appointments: 212-854-2878

Counseling and Psychological Services (CPS) offers short-term individual counseling, referrals for longer-term therapy, student-life support groups and workshops, medication consultations, and emergency consultations. Located on the 8th floor of Lerner, CPS is open Mondays through Fridays. CPS also has drop-in offices in six undergraduate residence halls and an on-call number for after-hours.

DISABILITY SERVICES

health.columbia.edu/disability-services

Disability Services (DS) facilitates access for students with all types of disabilities by coordinating accommodations and support services, thereby cultivating a campus culture that is sensitive and responsive to the needs of students with disabilities. DS works with many students with various types of disabilities including, but not limited to, physical, hearing, visual, learning, and psychological as well as chronic medical conditions.

Reasonable accommodations are adjustments to policies, practices, and programs that facilitate access to Columbia's academic programs, campus resources, and activities. Examples include exam accommodations, services such as note-taking, sign language interpreters, assistive technology, and coordination of accessible housing needs. Accommodation plans and services are determined on a case-by-case basis, and students seeking them are required to register with DS. This registration does not occur automatically upon enrollment at Columbia University. Detailed information regarding the registration process is available on the DS website or upon request by contacting DS at disability@columbia.edu.

Students are encouraged to register with DS during the summer prior to their arrival so that accommodations can be determined and/or arranged in advance as needed. Please note that students are not eligible to receive accommodations until they have duly registered with DS.

ALICE! HEALTH PROMOTION

health.columbia.edu/alice-health-promotion

Appointments: 212-854-5453

Alice! Health Promotion seeks to support the health and well-being of the student body and the University community by connecting individuals and groups to information and resources, cultivating healthy attitudes, promoting healthy behaviors, supporting policy, and fostering a culture that values and supports health—all with a focus on prevention. Alice! offers a wide variety of programs and services covering an assortment of health topics, including sleep, alcohol and other drugs, nutrition, physical activity, relationships, sexual and reproductive health, coping with stress, and more. Alice! staff are also available to talk with students about their health questions and how to access resources.

GAY HEALTH ADVOCACY PROJECT

health.columbia.edu/ghap

The Gay Health Advocacy Project (GHAP) promotes the health and well-being of lesbian, gay, bisexual, transgender, and queer (LGBTQ) people on campus. GHAP's staff and volunteers provide services concerning sexuality, sexual health, and LGBTQ support as well as confidential HIV testing and counseling for the entire community.

SEXUAL VIOLENCE RESPONSE & RAPE CRISIS ANTI-VIOLENCE SUPPORT CENTER

health.columbia.edu/sexual-violence-response

212-854-HELP (4357) for 24/7/365 support

Sexual Violence Response (SVR) is a support and advocacy system for survivors and cosurvivors of violence and works as well to promote the behaviors of positive, consensual relationships. SVR provides direct services to survivors and cosurvivors who may have experienced sexual, intimate-partner, or gender-based violence, stalking, or harassment. This includes crisis intervention, information on reporting and support options, and accompanying students to hospital emergency departments, police precincts, Public Safety, and other on- and off-campus resources. In its prevention work, SVR offers workshops, training sessions, and presentations on a wide range of topics related to sexual violence.

UNIVERSITY CHAPLAIN

ouc.columbia.edu

The Office of the University Chaplain ministers to the Columbia community while promoting interreligious understanding and supporting individual spirituality and faith perspectives. The University Chaplain works to promote interfaith and intercultural awareness; fosters learning through spiritual, ethical, religious, political, and cultural exchanges; and hosts programs on matters of justice, faith, and spirituality. The University Chaplain is available for confidential pastoral counseling to individuals, couples, and families in the Columbia community, and the Office of the University Chaplain may also assist with private ceremonies such as weddings, christenings, and memorial services. The University Chaplain oversees the work of a fellowship of over 20 Religious Life Advisers representing specific faith traditions.

PUBLIC SAFETY

publicsafety.columbia.edu

Emergency Numbers:

From an on-campus phone: 4-5555

From an off-campus phone: 212-854-5555

The Columbia University Department of Public Safety office is open 24 hours a day throughout the year to ensure the safety and well-being of the University community. A number of distinctively marked emergency telephones located throughout the campus, and a special on-campus phone system emergency number, extension 4-5555, help ensure rapid response to calls for assistance from any residence hall, classroom building, or other part of the campus. The department also provides walking escorts within the Columbia University vicinity, operates an evening shuttle bus service, issues crime alerts when necessary, engages in crime prevention, and operates the “safe haven” program, which provides storefront locations across campus where people who feel threatened may take refuge.

Appendix A

FOREIGN LANGUAGE REQUIREMENT

The requirement may be satisfied in one of the following ways:

1. Satisfactory completion of the second term of an intermediate language sequence (1202)
2. Demonstration of an equivalent competence through the appropriate score on an SAT II Subject Test or Advanced Placement test
3. Demonstration of an equivalent competence through the College's own placement tests
4. Successful completion of an advanced-level foreign language or literature course that requires 1202 or the equivalent as a prerequisite

Students whose native language is not English are not required to take an additional foreign language or a placement test if they have completed secondary school in their native language.

Additional information:

- All language instruction courses must be taken for a letter grade.
- Students wishing to satisfy the requirement in a language not listed below should consult with their adviser.
- For some languages, equivalent courses offered at Barnard College and the School of General Studies may be used to satisfy the requirement.
- Any student who wishes to submit a language course taken at another institution in fulfillment of the language requirement must pass a departmental placement examination.

PLACEMENT POLICIES

SAT II and Advanced Placement information is given below for Chinese, French, German, Hebrew, Italian, Latin, and Spanish.

CHINESE

A score of 5 on the Chinese Advanced Placement exam, or a score of 780–800 on the SAT II Subject Test in Chinese, satisfies the Columbia College foreign language requirement. All students who wish to continue their study of Chinese at Columbia must take the departmental placement exam during Orientation.

FRENCH

The French Department recognizes SAT II Subject Tests and AP Exams as outlined below. All students not submitting those scores but continuing French must take the departmental placement exam given during Orientation or at other times arranged through the department.

SAT II: Subject Test in French

Score	Course Placement
below 420	1101
420–499	1102
500–639	1201
640–779	1202
780+	satisfies language requirement.

Advanced Placement Exam in French

A score of 5 on a French language or literature exam satisfies the foreign language requirement. Upon successful completion of a 3-point 3000-level (or higher) course in French at Columbia, the Department of French and Romance Philology will award 3 points of AP credit, provided the grade in the course is a B or better. A score of 4 on the French language or literature exam satisfies the foreign language requirement. No points are awarded.

GERMAN

The Department of Germanic Languages recognizes SAT II Subject Tests and AP Exams as outlined below, but very strongly encourages students with high school German to take the Columbia placement exam to ensure proper placement. All students not submitting those scores but continuing German must take a departmental placement exam during Orientation.

SAT II: Subject Test in German

Score	Course Placement
below 400	1101
400–569	1102
570–679	1201
680–779	1202
780+	satisfies language requirement.

Advanced Placement Exam in German

A score of 5 on the German language exam satisfies the foreign language requirement. Upon successful completion of a 3-point 3000-level (or higher) course in German at Columbia, the Department will award 3 points of AP credit, provided the grade in the course is a B or better. A score of 4 on the German language exam satisfies the foreign language requirement. No points are awarded.

HEBREW

Students who have achieved a score of 700+ on the SAT II Subject Test in Hebrew and/or students who have passed the Jerusalem Examination have, upon receipt of official documentation, satisfied the foreign language requirement. Depending on their scores, students who passed the Jerusalem Examination may also receive credit for it. All students enrolling in Hebrew language courses beyond Elementary Hebrew I must take a placement test prior to registration. Tests are available at the Department of Middle East Languages and Cultures, 401 Knox Hall. Beginners may register for Elementary Hebrew I.

ITALIAN

A score of 5 on the Italian language exam satisfies the foreign language requirement. Upon successful completion of a 3-point 3000-level (or higher) course in Italian at Columbia, the Department of Italian will award 3 points of AP credit, provided the grade in the course is a B or better. A score of 4 on an Italian language exam satisfies the foreign language requirement. No points are awarded. The Department of Italian recognizes the SAT II subject test, and a score of 780 satisfies the foreign language requirement. All students who are continuing their study of Italian must take a departmental placement exam during Orientation.

LATIN

A score of 5 on the AP Latin exam satisfies the foreign language requirement. In addition, 3 points of credit will be awarded upon successful completion of a Latin class at the 3000 level or higher, provided the grade in the course is a B or better. No credit or placement is given for the SAT II test. All students wishing to continue Latin in the College should take the departmental place-

ment test and/or see the program director prior to registration.

SPANISH

The Department of Latin American and Iberian Cultures recognizes SAT II Subject Tests and AP Exams as outlined below. All students not submitting those scores but continuing Spanish must take a departmental placement exam during Orientation.

SAT II: Subject Test in Spanish

Score	Course Placement
below 420	1101
420–569	1102 or 1120*
570–689	1201
690–779	1202 or 1220*

780+ satisfies language requirement.

*with instructor approval and if Spanish is not the first foreign language you are learning

Advanced Placement Exam in Spanish

A score of 5 on the Spanish language or literature exam satisfies the foreign language requirement. Upon successful completion of a 3-point 3300-level (or higher) course in Spanish at Columbia, the Department of Latin American and Iberian Cultures will award 3 points of AP credit, provided the grade in the course is a B or better. A score of 4 on the Spanish language or literature exam satisfies the foreign language requirement. No points are awarded.

International Baccalaureate

A score of 5 or higher on the Higher Level Exam in Spanish satisfies the foreign language requirement.

For information about other languages taught at Columbia, please see the complete list in the Columbia College Bulletin: bulletin.columbia.edu/columbia-collegel/core-curriculum/foreign-language-requirement

Appendix B

FACULTY CONTACTS FOR SCIENCE MAJORS

Students considering a major in the sciences should, in their first two years, focus on the required introductory science classes.

You should consult the *Columbia College Bulletin* and speak with your adviser to plan your academic program. Students planning to follow a premedical program should also obtain a copy of the *Premedical Handbook* during Orientation.

The following professors are also available to answer the questions of students who:

- are interested in the sciences
- are considering a major or concentration in one of the following departments
- have questions about courses offered in the sciences
- are wondering where a degree in science can lead after graduation

Astronomy

Prof. Frederik Paerels frites@astro.columbia.edu

Biology

Prof. Deborah Mowshowitz dbm2@columbia.edu

Chemistry

Dr. Vesna Gasperov vg2231@columbia.edu

Computer Science

Dr. Jae Woo Lee jae@cs.columbia.edu

Earth and Environmental Sciences

Prof. Sidney Hemming sidney@ldeo.columbia.edu

Prof. Hugh Ducklow hducklow@ldeo.columbia.edu

Ecology, Evolution, and Environmental Biology

Dr. Matthew Palmer (Environmental Biology)
mp2434@columbia.edu

Dr. Jill Shapiro (Evolutionary Biology of the
Human Species) jss19@columbia.edu

Mathematics

Prof. Chiu-Chu (Melissa) Liu
ccliu@math.columbia.edu

Physics

Dr. Jeremy Dodd dodd@nevis.columbia.edu

Appendix C

COLUMBIA UNIVERSITY 2016–2017 ACADEMIC CALENDAR

FALL TERM 2016

September 5 Labor Day—University Holiday
September 6 First Day of Classes
September 16 End of Change of Program Period, Last Day to
Add a Class without Instructor Permission
October 11 Last Day to Drop a Class for Columbia College
October 20 Midterm Date
November 7 Academic Holiday—No Classes
November 8 Election Day—University Holiday
November 17 Last Day to Exercise Pass/D/Fail Option
November 17 Last Day to Drop a Class for SEAS
November 24 Thanksgiving Day—University Holiday
November 25 University Holiday
December 12 Last Day of Classes
December 16–23 Final Exams

SPRING TERM 2017

January 17 First Day of Classes
January 27 End of Change of Program Period, Last Day to
Add a Class without Instructor Permission
February 21 Last Day to Drop a Class for Columbia College
March 6 Midterm Date
March 13–17 Spring Break
March 23 Last Day to Exercise Pass/D/Fail Option
March 23 Last Day to Drop a Class for SEAS
May 1 Last Day of Classes
May 5–12 Final Exams
May 17 Commencement

IMPORTANT NOTES:

1. Dates are subject to change. See the 2016–2017 *CC* or *SEAS Bulletin* for current Academic Calendar.
2. Vacation travel—Students should not make travel plans until they know their final exam schedule. **Final exams will not be rescheduled for vacation travel purposes.**
3. Orientation—Because of its paramount importance to the academic and social well-being and success of first-year students, **attendance during New Student Orientation is mandatory.**

ALICE! CU'S HEALTH PROMOTION PROGRAM

John Jay Hall, 3rd Floor
212-854-5453
health.columbia.edu/services/alice

ATHLETIC AND RECREATIONAL FACILITIES

Dodge Physical Fitness Center
212-854-2548
gocolumbialions.com

BOOKSTORE

Lerner Hall
212-854-4131
columbia.bncollege.com

CENTER FOR CAREER EDUCATION

East Campus, Lower Level
212-854-5609
cce.columbia.edu

JAMES H. AND CHRISTINE TURK BERICK CENTER FOR STUDENT ADVISING

403 Lerner Hall
212-854-6378
cc-seas.columbia.edu/csa
csa@columbia.edu

Academic Success Programs
cc-seas.columbia.edu/asp

Preprofessional Advising
cc-seas.columbia.edu/preprofessional

Scholars Program
cc-seas.columbia.edu/scholars

COLUMBIA UNIVERSITY INFORMATION TECHNOLOGY (CUIT)

212-854-1919
columbia.edu/cuit

COUNSELING AND PSYCHOLOGICAL SERVICES

Lerner Hall, 8th Floor
212-854-2878
health.columbia.edu/services/cps

DEAN OF COLUMBIA COLLEGE

208 Hamilton Hall
212-854-2441
college.columbia.edu

DEAN OF COLUMBIA ENGINEERING

510 S. W. Mudd
212-854-2993
engineering.columbia.edu

DINING SERVICES

118 Hartley Hall
212-854-4076
columbia.edu/cu/dining

DISABILITY SERVICES

Wien Hall, 1st Floor
212-854-2388
health.columbia.edu/services/ods

FELLOWSHIPS OFFICE

606 Kent Hall
212-854-1161
college.columbia.edu/students/fellowships

FINANCIAL AID AND EDUCATIONAL FINANCING

618 Lerner Hall
212-854-3711
cc-seas.financialaid.columbia.edu

FRATERNITY AND SORORITY LIFE

515 Lerner Hall
212-854-6805
columbiagreeks.info

GRADUATION ZONE

cc-seas.columbia.edu/gradzone

HEALTH SERVICES

212-854-2284
health.columbia.edu

HOUSING SERVICES

118 Hartley Hall
212-854-2779
housingservices.columbia.edu

INSURANCE AND IMMUNIZATION COMPLIANCE

John Jay Hall, 3rd Floor
Insurance Office: 212-854-3286
Immunization Compliance Office:
212-854-7210

INTERCULTURAL RESOURCE CENTER

552 West 114th Street
212-854-0720
cc-seas.columbia.edu/multicultural/
aboutus/irc.php

INTERNATIONAL STUDENTS AND SCHOLARS OFFICE

524 Riverside Drive, 1st Floor
212-854-3587
columbia.edu/cu/isso

STUDENT CONDUCT AND COMMUNITY STANDARDS

800 Watson Hall
212-854-6872
studentconduct.columbia.edu

LIBRARY SERVICES

Butler Library
212-854-7309
library.columbia.edu

MEDICAL SERVICES

John Jay Hall, 3rd and 4th Floors
212-854-7426
After hours: 212-854-9797
health.columbia.edu/medical-services

MULTICULTURAL AFFAIRS

510 Lerner Hall
212-854-0720
cc-seas.columbia.edu/oma

NEW STUDENT ORIENTATION PROGRAM (NSOP)

505 Lerner Hall
212-854-3611
columbia.edu/cu/orientation

PARENT AND FAMILY PROGRAMS

609 Lerner Hall
212-854-2446
cc-seas.columbia.edu/parents

PUBLIC SAFETY

111 Low Library
212-854-2797
Emergency: 212-854-5555
columbia.edu/cu/publicsafety

REGISTRAR

See Student Service Center.

RESIDENTIAL PROGRAMS

515 Lerner Hall
212-854-6805
cc-seas.columbia.edu/reslife

STUDENT ENGAGEMENT

515 Lerner Hall
212-854-3611
cc-seas.columbia.edu/engagement

STUDENT SERVICE CENTER

205 Kent Hall
212-854-4400
Financial Services: columbia.edu/cu/sfs
Registrar: registrar.columbia.edu

STUDY ABROAD

606 Kent Hall
212-854-2559
ogp.columbia.edu

UNDERGRADUATE STUDENT LIFE

510–515 Lerner Hall
212-854-3612
cc-seas.columbia.edu/studentlife

UNIVERSITY CHAPLAIN

Earl Hall Center
212-854-6242
ouc.columbia.edu

