COLUMBIA COLLEGE | COLUMBIA ENGINEERING | TRANSFER AND COMBINED PLAN

ACADEMIC PLANNING GUIDE FOR NEW STUDENTS

2014-2015



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WELCOME

Dear Class of 2018,

Welcome to Columbia! The Center for Student Advising (CSA) can be a fantastic resource for you during all of your college years. We are here to offer advice, answer questions, help solve problems, and brainstorm about courses of study, life plans, or anything else. We look forward to meeting you in the fall and helping with the transition to life in college.

We have a few events planned for you for the summer before you come to campus. From June through early July, we hold our "Columbia 101" advising sessions, which introduce students and their families to the Columbia community and its unique advising programs. At these sessions, we will acquaint you with degree requirements and with the tools you need to begin designing your fall academic program. Incoming students also receive a gift from alumni, which makes this event truly special. We sincerely hope to see you at one of these sessions. You are also invited to participate in our Online Advising Chat Sessions in July and August for any questions that you would like answered prior to arrival.

In mid-August, you will receive an e-mail from the CSA with the name of your CSA advising dean. Then, the advising dean will send you an email introducing him- or herself, and when you arrive in August, you will set up a time using our online system to meet face-to-face during the New Student Orientation Program (NSOP). We strongly urge you to read through the relevant sections of this Academic Planning Guide in advance of that meeting and bring your planning sheet with you to the appointment!

The goal of all of these summer interactions is to prepare you for your first semester at Columbia and, for the longer term, to prompt you to think about the potential courses of study you can undertake here. These summer outreach initiatives are also designed to help you begin the advising relationship with your advising dean. The CSA is excited to welcome you to Columbia and accompany you on your journey for the next four years, during which you will explore, discover, and change.



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There are a number of other things you can do to ensure that you are ready for the transition to college. College success is not a big mystery. Based on our collective decades of experience, here are some surefire strategies that will help you immeasurably in your college years.

Be mindful of the demands of college life. High school is generally more structured than college. Many of your academic choices may have been made for you and you may have benefited from a long-term support network. In college, you will be building your own systems of support. Advisers of many sorts are here to support and guide you in this process, but, of course, you are in control of your education and experience, and ultimately responsible for your own choices and decisions, both academic and social.

Plan well to complete course work on time. Whether a class requires problem sets, tests, quizzes, papers, etc., planning well to accomplish all of your work on time is essential. There is plenty of help available to assist you in honing your planning skills. Talk to your CSA advising dean about it!

Balance your workload. Most students do best when they take classes that require different kinds of work each semester. If you take a balanced mixture of those that require quantitative work, papers, heavy reading, memorization, etc., you will have a better chance of success. Talk to your CSA advising dean about ways to achieve this balance in your course selection each term.

Get to know faculty. Your CSA advising dean is part 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. Ask your CSA advising dean about the best ways of approaching professors, if it's something you are not quite comfortable doing. Research shows that students feel the most engaged in and the most satisfied with their undergraduate education if they get to know several faculty members during their college years. A good guideline is to get to know two faculty members each year well enough to be able to ask for a good letter of recommendation.

Ask for help. This is the single most problematic issue for college students; they don't know how to ask for help in a timely way. Somehow, many students think that asking for help is a sign of weakness. In fact, the truth is quite to the contrary. Asking for what you need is a sign of maturity and wisdom. None of us can be successful completely on our own. Reach out to your CSA advising dean no matter what kind of help you need. We will help you find the right next step.

In short, we are here for you. We can't wait to meet you and work with you in the coming years.

Sincerely,

Mojt.

Monique Rinere Dean of Advising

THE CENTER FOR STUDENT ADVISING

The Center for Student Advising (CSA) 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. CSA 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. Students are expected to engage with their CSA advisers to form partnerships that will help them become the best possible versions of themselves.

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-August, and you are encouraged to contact him or her before New Student Orientation. When you do arrive on campus, you can find your adviser on the fourth floor of Lerner Hall—come by as soon as you can!

CSA advisers represent 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 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
- future life plans
- 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

Every week you will receive the *CSA Weekly* by e-mail, with announcements regarding academic deadlines, information sessions, campus events, career days, fellowships, and more. Another resource is the *CSA Blog* (http://studentaffairs.columbia.edu/csa/blog), which contains the same information but is updated daily. Finally, the CSA website is a great resource for information on academic planning and policies: www.studentaffairs.columbia.edu/csa/.

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, over the course of their years 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 information and advice they need

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

If you never ask the question, you will never get an answer.

–Melissa Ann I.

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 may not register for more than 22 points per semester without approval from the Committee on Academic Standing. 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

The Core Curriculum has, since 1919, 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 Curriculum engage social, political, and philosophical ideas that have resonated across millennia and continue to challenge us today. The skills and habits honed by the Core—analysis, argument, and respect for ideas, nuances, and differences—provide a rigorous preparation for life.

You will be required to complete *Masterpieces of Western literature and philosophy, University writing*, and *Frontiers of science* in your first year. 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 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 www.college.columbia.edu/core.

The Columbia College 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 C1000: Frontiers of science plus two one-semester courses from an approved course list)

- Introduction to contemporary civilization in the West (COCI C1101-C1102) (two semesters)
- *Masterpieces of Western art (HUMA W1121)* (one semester)
- *Masterpieces of Western music (HUMA W1123)* (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 C1001-C1002: 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 <i>The Iliad</i> at the introduc- tory lecture, which meets during the week of New Student Orientation.
	Each member of the Class of 2018 will be presented with a copy of <i>The Iliad</i> , a gift from The Columbia College Alumni Association, during the "Columbia 101" programs at- tended by students and their fami- lies. Students who are not able to attend one of these programs will receive their copy of <i>The Iliad</i> when they arrive on campus in August. We suggest these students prepare for the first day of class by reading either an electronic version of <i>The</i> <i>Iliad</i> or a copy borrowed from the local library. The edition used in Literature Hu-

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, Sophocles, Herodotus, Thucydides, Plato, Virgil, Augustine, Dante, Montaigne, Shakespeare, Austen, Dostoyevsky, Woolf, and others. Lit Hum, as it is popularly known, offers students 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 students develop and construct their own independent and cogent critical arguments, both in class discussions and in their written work.

UNIVERSITY WRITING

What is required?	ENGL C1010: 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 complements the other classes of the Core Curriculum by helping you become a more capable and independent academic writer. Students meet in small seminars twice a week to work on critical analysis, revision, research, collaboration, and other skills that are central to becoming a successful writer and reader. University writing brings students into contact with a range of contemporary texts from a variety of disciplines and engages them in ongoing debates about the meaning of a liberal arts education and the function of the university in society.

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, typi- cally 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 informa- tion on satisfying the language requirement as well as for faculty contact information for all languag- es regularly offered at Columbia.

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: www.lrc.columbia.edu.

SCIENCE

What is required?	The science Core course, <i>SCNC</i> <i>C1000: Frontiers of science</i> , plus two one-semester courses from an approved course list.
When?	<i>Frontiers of science</i> 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 sci- ence requirement unless otherwise noted. A list of courses approved for the science requirement is here: www.college.columbia.edu/bulletin/ core/science.php

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.

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What is required?	COCI C1101-C1102: 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 W1121: 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 learning. 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 W1123: 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 begin- ning 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: www.college.columbia. edu/bulletin/core/mc.php	

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.

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	Two courses and a swim test. Before graduation.
Can I test out?	0
Special notes:	Students unable to complete the swim requirement due to physical restrictions should obtain a waiver from Health Services at Columbia before contacting the Physical Education Department.

The physical education component of the Core emphasizes the importance of intellectual and physical balance. 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 C1005: Intercollegiate athletics.*

MAJORS AND CONCENTRATIONS

All students must complete at least one major or concentration to fulfill the degree requirements; students may select a 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 be counted twice for each program.

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 allow them to narrow down their choices. Each department and academic program has a director of undergraduate studies, a faculty member who can answer their questions about requirements for the major or concentration, guide their choices about placement level, discuss opportunities to study abroad, and assist them in planning their 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 (www.college.columbia.edu/bulletin). 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 2014 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* (www.college. columbia.edu/bulletin) or Directory of Classes (www.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. During the summer, you will receive a mailing with an assigned UNI (Columbia login and e-mail address) and password. You will use them to create an e-mail 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.

Do not panic if your schedule is not complete by the end of your first registration appointment time; there is a lot of movement in enrollment during the first weeks of classes.

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 grade 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 C1403-C1404 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 C1403-C1404*, a one-year course in general chemistry, with *CHEM C1500*, a one-term laboratory course. *Calculus I* or the equivalent is a corequisite.

In Track 2, students take *CHEM C1604*, a one-term intensive course in general chemistry. The accompanying lab can be either *CHEM 1500* or *CHEM 2507*, depending on placement. In Track 3, students take *CHEM C3045-C3046*, a one-year course in organic chemistry for first-year students. All students in Track 3 take *CHEM C2507*, a one-term laboratory course; *Calculus II* or the equivalent is a corequisite.

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 C2801: 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 http:// 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 contact the Music Performance Program directly. You can visit the website at music.columbia.edu/mpp or stop by the office in 618 Dodge Hall. Auditions are required for music lessons as well as music performance groups, and will be held during the first week of classes.

Placement

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:* www.college.columbia.edu/ bulletin/programs_of_study. 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 12–13 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 in accordance with the departmental and College policies stated in that year's *Columbia College Bulletin*. 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, you must consult with the 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 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

www.ogp.columbia.edu

The Office of Global Programs works to ensure that students have an academic experience that enhances and complements their Columbia education and that, wherever possible, provides a comparative dimension in their major field of study. It is never too early to start preparing to study abroad. Students from every major—from English to environmental biology—should explore the possibilities that international education has to offer. Visit the Academic Resources Fair during Orientation, the annual Study Abroad Fair, or the office in 606 Kent.

ADVANCED PLACEMENT CREDIT CHART

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 C2005</i> and <i>BIOL C2006</i> but are not required to do so. For details, see http:// www.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 C1604</i> are granted 3 points of credit; students who are placed into <i>CHEM C3045-C3046</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 W1004</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 W1105</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 0	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 <i>3000</i> -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 <i>3000</i> -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. Credit is awarded upon successful completion of a <i>3000</i> -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. Credit is awarded upon successful completion of a <i>3000</i> -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.
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 <i>3000</i> -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.
Government and Politics (U.S. and/or Comparati	-	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 <i>3000</i> -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 <i>3000</i> -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 undergraduate 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 <i>3000</i> -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
Latin	5	03	of 4 on the AP Italian Language exam, but the foreign language requirement is satisfied. 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 on the AP Calculus AB exam, provided the student completes <i>MATH V1102</i> with a grade of C or better. The department grants 3 credits for a score of 5 on the AP Calculus AB exam, provided the student completes <i>MATH V1102</i> or <i>MATH V1201</i> with a grade of C or better.
Mathematics BC	5	6	The department grants 6 credits for a score of 5 on the AP Calculus BC exam, provided the student completes <i>MATH V1201</i> or <i>MATH V1207</i> with a grade of C or better. Students can receive credit for only one calculus sequence.
	4	3	The department grants 3 credits for a score of 4 on the AP Calculus BC exam, provided the student completes <i>MATH V1102</i> or <i>MATH V1201</i> with a grade of C or better.
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 <i>1000</i> -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, 1002, 1201, 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, 1002, 1201, 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, 1002, 1201, 1401</i> , or <i>1601</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 Literature exam.
	4	0	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.
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.

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FELLOWSHIPS

www.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 with 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.

PREPARATION FOR FUTURE PROFESSIONAL STUDY

OFFICE OF PREPROFESSIONAL ADVISING

www.studentaffairs.columbia.edu/preprofessional

The Center for Student Advising includes the Office of Preprofessional Advising for Columbia College and The Fu Foundation School of Engineering and Applied Science. This office provides information for students planning a career in law, business, or one of the health professions. The office advises and assists students throughout their four years and beyond. The advisers work 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 http://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 http://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 www.college. columbia.edu/bulletin. Please note that when looking at courses listed in the Bulletin, those with the letter "x" after the course number will be offered during the fall semester and those with the letter "y" will be offered in the spring.

ACADEMIC RESOURCES AND GUIDES FOR STUDENTS

BULLETIN

www.college.columbia.edu/bulletin

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

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 guided by your school's bulletin.

COURSEWORKS

courseworks.columbia.edu

CourseWorks@Columbia is the University's course management system. For students, the website serves as a single point of entry to all their courses, lectures, assignments, readings, bulletin board discussions, and grades, as well as links to digital library reserves. To access CourseWorks, students must first activate their Columbia UNI at uni.columbia.edu.

Please note: CourseWorks is managed by individual instructors. The fact that you have access to CourseWorks for a particular class does not mean that you are registered for that class. Official registration for classes is recorded only in SSOL.

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 www.college.columbia.edu/core/uwp/writing-center.

The **Language Resource Center**, located in 353 International Affairs Building, provides collections and facilities for the over forty 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 twenty. Students should take advantage of these services in order to practice their listening comprehension skills. For more information, visit www.lrc.columbia.edu.

TUTORING

www.studentaffairs.columbia.edu/asp/tutoring

The CC/SEAS Tutoring Service, which is run by the Center for Student Advising, provides group tutorials in a broad range of courses, including introductory sciences, languages, Core classes, and engineering subjects. Highly qualified tutors assist students with mastering course content, sharpening testing skills, and maximizing their potential for academic success. Students should request a tutor as soon as the need for one becomes apparent. The CSA also offers Academic Success Seminars throughout each semester. These seminars range from timemanagement and note-taking to managing stress. Seminars are open to all students.

COLUMBIA UNIVERSITY LIBRARIES

http://library.columbia.edu

Twenty-two separate libraries make up the Columbia University 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 to draw on. The Library Information Office, located in Room 201, Butler Library, answers general questions about any of the Libraries' services and resources. A number of workshops are available throughout the year to help students familiarize themselves with the variety of services available.

BOOKSTORE

columbia.bncollege.com

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

** Having a social and academic life at Columbia is a balance; students need to know their support systems. ** –Zachary S. (CC)

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COLUMBIA COLLEGE Please answer these questions and bring this page with you to your initial appointment with your adviser in the Center for Student Advising during the New Student Orientation Program (NSOP).		
Hometown:		
The following resources contain helpful information as you pl Please check the box next to the ones you have consulted.	an your fall schedule and	explore courses of study at Columbia.
CC Bulletin: www.college.columbia.edu/bulletin		
Directory of Classes: http://www.columbia.edu/c	:u/bulletin/uwb/	
Student Services Online (SSOL): https://ssol.col	umbia.edu/	
Resources available on the CSA website: http://	www.studentaffairs.columb	bia.edu/csa
Columbia 101 Summer Session		
Online advising chats		

Please create two possible schedules for the fall term. Be sure to include two or three courses that will help you explore a possible 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):

1. Lit Hum	1. Lit Hum
2. Univ Writing/Frontiers	2. Univ Writing/Frontiers
3.	3.
4.	4.
5.	5.

What questions do you have about your requirements for the Columbia degree?

What do you want to accomplish during your four years at Columbia? (These accomplishments can be academic or nonacademic.)

What new academic subjects would you like to explore while here?

List three things you expect to be different in college from high school: a. b. С.____ What else should I, as your first adviser at Columbia, know about you in order to help you have the best possible experience at Columbia? Do you understand the role that faculty can and should play in helping you determine a field of study? Don't understand Understand \square \square 3 2 1 4 5 Do you understand the role of your CSA adviser in helping you realize your goals? Don't understand Understand 1 2 3 5 4

COLUMBIA ENGINEERING: THE FU FOUNDATION SCHOOL OF ENGINEERING AND APPLIED SCIENCE



Planning Guide 2014–2015

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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 may not register for more than 21 points per semester without approval from the Committee on Academic Standing. 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 E1102)
 - Computer science
 - Lab requirement for selected major
- 2. At least 27 points of nontechnical requirements:University writing (ENGL C1010)
 - Core Humanities sequence
 - Art or Music Humanities
 - Principles of economics (ECON W1105)
 - 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 of pure science as well as a comprehensive grounding in English and 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 <i>Calculus I–III</i> or <i>IV,</i> 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 not be granted AP credit, and 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.

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The Basics

Note: SEAS students may not be exempted from Calculus III, which is a required class for all majors, or from Calculus IV (if Calculus IV is required by a student's major department).

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.

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 in- troductory 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 back- ground in physics and/or the physics placement test given during Orienta- tion 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 C1401: Introduction to mechanics and thermodynamics PHYS C1402: 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 C1601: Mechanics and relativity PHYS C1602: 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 C2801: Accelerated physics I PHYS C2802: 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:

- 1. a placement test during Orientation, or
- 2. 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 back- ground 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 C1403-C1404 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 C1403-C1404: General chemistry (fall, spring) CHEM C1500: General chemistry lab (fall or spring, usually taken in the first year)

First-Year/Sophomore Technical Requirements

Track 2

CHEM C1604: Intensive general chemistry (fall of first year) *CHEM C1500: General chemistry lab* (fall or spring, usually taken in the first year) or *CHEM2507: Intensive general chemistry lab* (if you place into it)

Track 3

CHEM C3045: Organic chemistry for first years (fall of first year) CHEM C3046: Organic chemistry for first years (spring of first year) CHEM C2507: 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 E1102: The Art of Engineering.*

When? Either fall or spring of the first year (taken in the semester opposite ENGL C1010: 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 CSA adviser.

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

ENGI E1006: Introduction to computing for engineers and applied scientists COMS W1004: Introduction to computer science and programming in Java COMS W1005: Introduction to computer science and programming in MATLAB

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 chemis- try or physics lab (or require both). Students should consult with their adviser and/or the <i>Bulletin</i> before choosing a lab.

NONTECHNICAL REQUIREMENTS

What is required?	27 points of nontechnical course work; 16–18 of these points are man- dated by SEAS, and 9–11 points are electives.
When?	Before graduation.
Note:	<i>University writing (ENGL C1010)</i> 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 C1010) 3 pts. Required in first year.

Core Humanities sequence: *Masterpieces of Western literature and philosophy (HUMA C1001-C1002); Introduction to contemporary*

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civilization in the West (COCI C1101-C1102); or a Global Core sequence. 6–8 pts. Recommended in second year.

Masterpieces of Western art (HUMA W1121) or Masterpieces of Western music (HUMA W1123) 3 pts. Can be taken at any time.

Principles of economics (ECON W1105) 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 <i>University writing</i> (ENGL C1010).
When?	Either fall or spring of the first year (taken in the semester opposite ENGI E1102).
Can I test out?	No.

ENGL C1010: University writing, a seminar in composition, complements both the technical and nontechnical requirements that all engineers are required to take by helping them become more capable and independent academic writers. University writing will help students develop these abilities by entering into contemporary debates about the meaning of liberal education and the function of the university in society, and by conducting college-level academic research. All SEAS students must complete University writing in the first year.

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 intellectual and physical balance. 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 C1005: 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*, http://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 of Columbia Engineering.

REGISTRATION ADVICE

You will be preregistered for either *University writing* or *The Art* of *Engineering* for the fall 2014 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 (www.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. During the summer, you will receive a mailing with an assigned UNI (Columbia login and e-mail address) and password. You will use them to create an e-mail 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.

Do not panic if your schedule is not complete by the end of your first registration appointment time; there is a lot of movement in enrollment during the first weeks of classes. Study Abroad

STUDY ABROAD

bulletin.engineering.columbia.edu/study-abroad

The Office of Global Initiatives tries to ensure that students have an academic experience that enhances and complements their Columbia education. 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, or the office in 254 Mudd.

SEAS students interested in studying abroad must plan their schedules early and with care. There are also summer study abroad programs that should be considered. Consult with your adviser.

FELLOWSHIPS

www.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 advanced 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 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 placement 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 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 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.

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 be in possession of appropriate transcripts or scores.

SUBJECT	SCORE	CREDIT	REQUIREMENTS OR PLACEMENT STATUS CREDIT
Art history	5	3	No exemption from HUMA W1121
Biology	4 or 5	3	No exemption
Chemistry	4 or 5 4 or 5	3 6	Requires completion of <i>CHEM C1604</i> with grade of C or better. Requires completion of <i>CHEM C3045-C3046</i> with grade of C or better.
Computer science A	4 or 5	3	Exemption from COMS W1004
Economics Micro & macro	5 & 4	4	Exemption from <i>ECON W1105</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 Literature	4 or 5 4 or 5	3 3	
German language	4 or 5	3	
Government and politics United States Comparative	5 5	3 3	Exemption from <i>POLS W1201</i> Exemption from <i>POLS V1501</i>
History European United States	5 5	3 3	
Italian language	4 or 5	3	
Latin	5	3	
Mathematics Calculus AB Calculus BC Calculus BC	4 or 5 4 5	3* 3* 6	Requires completion of <i>MATH V1102</i> with a grade of C or better. Requires completion of <i>MATH V1102</i> with a grade of C or better. Requires completion of <i>MATH V1201</i> (or <i>V1207</i>) with a grade of C or better.
Music theory	5	3	
Physics (6 credits r C-MECH	maximum) 4 or 5	3	Credit reduced to 0 if PHYS 1401 or 1601 is taken. Credit reduced
C-E&M	4 or 5	3	to 0 if <i>PHYS C2801</i> is taken and the final grade is C– or lower. Credit reduced to 0 if <i>PHYS 1402</i> or <i>1602</i> is taken. Credit reduced to 0 if <i>PHYS C2801</i> is taken and the final grade is C– or lower.
Physics B	4 or 5	3	No exemption.
Spanish Language Literature	4 or 5 4 or 5	3 3	

*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 not be awarded credit and may 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**

OFFICE OF PREPROFESSIONAL ADVISING

www.studentaffairs.columbia.edu/preprofessional

The Center for Student Advising includes the Office of Preprofessional Advising for Columbia College and Columbia Engioffice advises and assists students throughout their four years but works 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 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. 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. degree and the entire Columbia College Core Curriculum. Consult with 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 http://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 C1010) or The art of engineering (ENGI E1102) 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.

neering. This office provides information for students planning a career in law, business, or one of the health professions. The

3

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 primary source for answers to your academic questions.

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 guided by your school's bulletin.

COURSEWORKS

courseworks.columbia.edu

CourseWorks@Columbia is the University's course management system. For students, the website serves as a single point of entry to all their courses, lectures, assignments, readings, bulletin board discussions, and grades, and provides links to digital library reserves. To access CourseWorks, students must first activate their Columbia UNI at uni.columbia.edu.

Please note: CourseWorks is managed by individual instructors. The fact that you have access to CourseWorks for a particular class does not mean that you are registered for that class. Official registration for classes is recorded only in SSOL.

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 www.college.columbia.edu/core/uwp/writing-center.

TUTORING

www.studentaffairs.columbia.edu/asp/tutoring

The CC/SEAS Tutoring Service, which is run by the Center for Student Advising, provides group tutorials in a broad range of courses, including introductory sciences, languages, Core classes, and engineering subjects. Highly qualified tutors assist students with mastering course content, sharpening testing skills, and maximizing their potential for academic success. Students should request a tutor as soon as the need for one becomes apparent. The CSA offers Academic Success Seminars throughout each semester. These seminars range from time management and note-taking to managing stress. Seminars are open to all students.

COLUMBIA UNIVERSITY LIBRARIES

http://library.columbia.edu

Twenty-two separate libraries make up the Columbia University 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 to draw on.

The Library Information Office, located in Room 201, Butler Library, answers general questions about any of the Libraries' services and resources. A number of workshops are available throughout the year to help students familiarize themselves with the variety of services available.

BOOKSTORE

columbia.bncollege.com

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

Make sure that you take all the relevant placement exams but don't stress out over how you do.

-Andrew L. (SEAS)

THE FU FOUNDATION SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Please answer these questions and bring this page with you to your initial appointment with your adviser in the Center for Student Advising during the New Student Orientation Program (NSOP)

Name:	UNI:	Cell phone #:	
Hometown:			

The following resources contain helpful information as you plan your fall schedule and explore courses of study at Columbia. Please check the box next to the ones you have consulted.

SEAS Bulletin: http://bulletin.engineering.columbia.edu/

Directory of Classes: http://www.columbia.edu/cu/bulletin/uwb/

Student Services Online (SSOL): https://ssol.columbia.edu/

Resources available on the CSA website: http://www.studentaffairs.columbia.edu/csa

Columbia 101 Summer Session

Online advising chats

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 below several choices for your fifth course.

1. Calculus

2. Physics

3. Chemistry

4. The Art of Engineering or University Writing

5. _____

What questions do you have about your requirements for the Columbia degree?

What do you want to accomplish during your four years at Columbia? (These accomplishments can be academic or nonacademic.)

What new academic subjects would you like to explore while here?

List three things you expect to be different in college from high school:

а.		
b.		
С.	 	

What else should I, as your first adviser at Columbia, know about you in order to help you have the best possible experience at Columbia?

Do you understand the role that faculty can and should play in helping you determine a field of study?

Don't understand			ι	Jnderstand
1	2	3	4	5

Do you understand the role of your CSA adviser in helping you realize your goals?

Don't under	stand		I	Understand
	2	3	4	5

TRANSFER AND COMBINED PLAN



Congratulations, and welcome to Columbia University!

This guide provides practical information on advising at Columbia, the Core Curriculum, the courses you will have to take, and the resources that are available to help you. This particular section contains information specifically for you as a transfer or Combined Plan student. You are expected to read either the Columbia College or the Columbia Engineering section of this guide, as appropriate, for more detailed information.

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 six academic classes a semester.
- Transfer students must complete a minimum of 60 credits at Columbia.

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
- progress toward and completion of academic requirements
- future life plans
- registration questions
- academic standing, academic warnings, and probation
- Degree Audit Report (DAR) interpretation
- changes in academic program, in consultation with faculty advisers (if appropriate)
- · petitions for exceptions to academic policy
- receiving transfer, AP/IB, or summer course credit
- other opportunities, including premed and prelaw requirements, fellowships, graduate school, and other academic options

E-MAIL LISTSERV AND BLOG

There are many ways to stay connected to CSA. Every week, CSA e-mails the *CSA Weekly* to all CC/SEAS undergraduates with announcements regarding academic deadlines, information sessions, campus events, career days, and fellowships. CSA also publishes the *CSA Blog* (http://studentaffairs.columbia.edu/csa/ blog), which is updated daily with the same information.

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 Center for Student Advising.

Credit and course approvals are two separate issues. Credit gets you closer to the 124 (CC) or 128 (SEAS) points that 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 and do not include requests for extra time to complete a specific major. You are expected to work with your CSA 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 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 2016 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.

CC: THE CORE CURRICULUM

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

Core Curriculum requirements:

- Masterpieces of Western literature and philosophy (HUMA C1001-C1002) (two semesters)
- University writing (ENGL C1010) (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 C1101-C1102) (two semesters)
- *Masterpieces of Western art (HUMA W1121)* (one semester)

- *Masterpieces of Western music (HUMA W1123)* (one semester)
- Global Core (two one-semester courses from the approved course list)
- Physical education (PHED C1001-C1002) (two semesters, plus swim test)

LITERATURE HUMANITIES

What is required?	HUMA C1001-C1002: Master- pieces 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 exemp- tion, please contact your CSA adviser.
Special note:	All entering students taking Lit Hum their first year should be prepared to discuss the first twelve books of <i>The Iliad</i> at the introduc- tory lecture, which meets during the week of New Student Orientation.
	Transfer students will be presented with a copy of <i>The Iliad</i> , a gift from The Columbia College Alumni Association, during the "Columbia 101" programs attended by enter- ing students and their families. Students who are not able to attend one of these programs will receive their copy of <i>The Iliad</i> when they arrive on campus in August. We suggest these students prepare for the first day of class by reading either an electronic version of <i>The</i> <i>Iliad</i> or a copy borrowed from the local library.
	The edition used in Literature Humanities classes is the Lattimore (2011) translation.

UNIVERSITY WRITING		MUSIC HUMANITIES		
	ENGL C1010: University writing. This course must be taken in the	What is required?	HUMA W1123: Masterpieces of Western music.	
	first year, provided you have not	When?	Before graduation.	
May I test or place out?	been granted exemption from the requirement. You may petition to receive	May I test or place out?	While it is very difficult to obtain exemption from this course,	
	exemption from the <i>University</i> <i>writing</i> 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 or e-mailed as graded or ungraded papers to your adviser at the Center for Student Advising.		students who are exceptionally knowledgeable in this subject may be exempted by passing an Exemp- tion Exam or by filing a course substitution request. Exemption must be requested during your first semester at Columbia. The Exemp- tion 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	
CONTEMPORARY C			Hamilton Hall.	
What is required?	COCI C1101-C1102: Introduction to contemporary civilization in the West, I and II.	GLOBAL CORE		
When?	Fall and spring semester of	What is required?		
	second year.	When?	Before graduation.	
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 in the CSA.	May I test or place out?	Students may petition for ex- emption from one or both of the requirements based on course work completed at their previous institution. Your CSA adviser will provide information on the process. Students may also "double count" a Global Core course toward major/ concentration requirements.	
ART HUMANITIES		Special note:	The Global Core course approval	
What is required?	HUMA W1121: Masterpieces of Western art.		process is not the same as the Col- lege credit approval process.	
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. Ex- emption must be requested during your first semester at Columbia. For more information, please visit the	6 6 Don't be af	raid to 'shop around' for	

classes. Try out different courses that you may be interested in. **77**

—Alissa F. (CC)

more information, please visit the Center for the Core Curriculum in 202 Hamilton Hall.

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 institu- tion. You must complete at least one of the courses for the require- ment at Columbia. Please note that social science courses are not ap- proved 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 Sub-Com- mittee on Science Instruction.
Special notes:	The science requirement may not be fulfilled using only quantitative (computer science, mathematics, and statistics) courses. After ma- triculating at Columbia, students may not use Barnard College cours- es 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 advancedlevel 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 CSA 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 edu- cation requirements with depart- mental approval if transfer credit is awarded on a student's TCE for approved physical education courses. In addition, students may receive physical education credit for participating in intercollegiate athletics. Please speak with your CSA 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
- Fellowships
- Preparation for Future Professional Study Medical School Law School Business School New York State Teaching Certification
- Academic Resources and Guides for Students Bulletins

SSOL CourseWorks Departmental Resources Help Rooms Writing Center

- Language Resource Center
- Tutoring
- Columbia University Libraries
- Bookstore

SEAS: SELECTING YOUR CLASSES

Consult your CSA 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 E1006, W1004,* or *W1005:* minimum one semester)
- The art of engineering (ENGI E1102)
- *University writing (ENGL C1010)* (one semester unless granted course approval, as determined by petition and portfolio review)
- Principles of economics (ECON W1105)

- Other nontechnical course work (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 CSA 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 CSA adviser partial or full chemistry course approval based on equiva- lent courses from your prior institu- tion.

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SEAS: Selecting Your Classes

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	101	

LAB

What is required?	At least two semesters of introduc- tory physics. Some majors may require one or more additional courses.
When?	Fall of the incoming year if course approval is not granted.
May I test or place out?	You should discuss with your CSA adviser partial or full physics course approval based on equiva- lent courses from your prior institu- tion

NONTECHNICAL REQUIREMENTS

What is required?	27 points of nontechnical course work; 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 ap- proved courses taken at your prior institution to be applied toward the 27-point nontechnical requirement. You should discuss course approv- als with your CSA adviser.

UNIVERSITY WRITING What is required? One semester of chemistry and/or physics laboratory work; selection What is required? ENGL C1010: University writing. will depend upon major. When? Entering fall or spring, if course When? As soon as possible. approval not granted. May I test or place out? You should discuss with your CSA May I test or place out? Students may petition to receive adviser lab course approval based exemption from the University on an equivalent course from your *writing* requirement by submitting prior institution. a portfolio consisting of three essays written for a course taken at their prior institution. The essays may be sent as graded or ungraded **COMPUTER SCIENCE** papers to the Center for Student Advising. ng

What is required?	One semester of a programmin course (<i>ENGI E1006, COMS</i> <i>W1004</i> , or <i>W1005</i>).
When?	As soon as possible.

May I test or place out?	You should discuss with your CSA
	adviser computer science course
	approval based on an equivalent
	course from your prior institution.

THE ART OF ENGINEERING

What is required?	One semester of <i>ENGI E1102: The art of engineering.</i>
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 con- sult with your CSA adviser about approval based on an equivalent course from your prior institution.

PRINCIPLES OF ECONOMICS

What is required?	ECON W1105: Principles of eco- nomics.
When?	As soon as possible, if course approval is not granted.
May I test or place out?	You should discuss with your adviser course approval based on the Economics AP/IB or approved course(s) taken at your prior insti- tution.
Special note:	Introductory economics courses taken outside of Columbia must cover both microeconomics and macroeconomics.

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 is awarded on a student's TCE for approved physical education courses. In addition, students may receive physical education credit for participating in intercollegiate athletics. Please speak with your CSA 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
- Fellowships
- Preparation for Future Professional Study Medical School Law School **Business School**
 - New York State Teaching Certification
- Academic Resources and Guides for Students **Bulletins** SSOL CourseWorks Departmental Resources Help Rooms Writing Center
 - Language Resource Center
- Tutoring
- Columbia University Libraries
- Bookstore

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 writingintensive course and one course in economics
- First-year/sophomore professional course*
- 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 Students

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 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 Center for Student Advising outlines four areas: major, anticipated total transfer credit, required course work 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 course work 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 engineeringspecific courses, which must be evaluated by the department.

In most cases, students receive 68 advanced starting 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 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 course descriptions 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. Pierre-David Létourneau, 212-854-6361, pl2526@columbia.edu

Applied Physics: Prof. Francesco Volpe, 212-954-6528, fvolpe@ columbia.edu

Biomedical Engineering: Prof. X. Edward Guo, 212-854-6196, exg1@columbia.edu

Chemical Engineering: Prof. V. Faye McNeill, 212-854-2869, vfm2103@columbia.edu; Prof. Scott Banta, 212-854-7531, sbanta@cheme.columbia.edu; Prof. Christopher Durning, 212-851-8161, cjd2@columbia.edu

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

Computer Engineering Program: Prof. Charles Zukowski, 212-854-2073, caz@columbia.edu; Elsa Sanchez, 212-854-3104, elsa@ee.columbia.edu

Computer Science: Prof. Stephen Edwards, 212-939-7019, sedwards@cs.columbia.edu; Remi Moss, remimoss@cs.columbia.edu

Earth and Environmental Engineering: Prof. Tuncel Yegulalp, 212-854-2984, tmy1@columbia.edu

Electrical Engineering: Prof. John Kymissis, 347-850-0235, ik2174@columbia.edu; Elsa Sanchez, 212-854-3104, elsa@ee.columbia.edu

Industrial Engineering and Operations Research: Mrs. Adina Berrios Brooks, 212-854-1934, adina@ieor.columbia.edu; Ms. Jenny Mak, 212-854-0757, jenny@columbia.edu

Materials Science and Engineering Program: Prof. William Bailey, 212-854-3090, web54@columbia.edu

Mechanical Engineering: Becca Chambers, 212-854-3874, rc2421@coumbia.edu

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Academic Integrity

Academic integrity defines a university and serves as a cornerstone of 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.

VIOLATIONS

Violations of academic integrity include but are not limited to:

- plagiarism
- cheating on examinations
- collaboration on assignments when it has been prohibited
- receiving unauthorized assistance on an assignment from a friend, classmate, or other student who previously took the class
- copying computer programs
- copying someone else's lab data
- submitting the same work for two different classes
- selling or buying of notes, exams, papers, and other academic study materials
- deceitfulness in academic assignments or in dealing with University officials, including faculty and staff members
- obtaining advance knowledge of exams or other assignments without permission

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 exonerate you from 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 in 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. Students may find themselves pressed for time, unprepared for an assignment or exam, or anxious about the need to earn a high grade. In such circumstances, some students choose to cheat. This 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 course work:

- 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.

- 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 Center for Student Advising and Counseling and Psychological Services.

Columbia offers a wealth of resources to help students make sound decisions regarding academics, extracurricular activities, and personal issues. If you do not know where to go, see your adviser.

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.

CENTER FOR STUDENT ADVISING

www.studentaffairs.columbia.edu/csa

The Center for Student Advising (CSA) provides an integrated advising experience for all students in Columbia College and Columbia Engineering. CSA brings together, under one roof, general academic advising, Academic Success Programs, the Columbia Undergraduate Scholars Program, and the Office of Preprofessional Advising. Students are assigned a CSA 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. CSA advisers work collaboratively with faculty and other campus offices and resources to help engender student success.

JUDICIAL AFFAIRS AND COMMUNITY STANDARDS

www.studentaffairs.columbia.edu/judicialaffairs

The Office of Judicial Affairs and Community Standards (OJA) works closely with many other Columbia University offices to ensure that your community is a safe, honest, and responsible one. One of the ways that the Office of Judicial Affairs and Community Standards meets this goal is by utilizing the Dean's Discipline process when an allegation has been made that a student has violated a Columbia policy.

COMMUNITY DEVELOPMENT

www.studentaffairs.columbia.edu/comdev

Community Development is comprised of Multicultural Affairs, Residential Programs, and Student Engagement. Collectively they work toward a common mission to foster a vibrant and welcoming community through organizational advising, leadership development, advocacy, diversity education, community programming and civic engagement. Throughout the year Community Development offers countless community events; provides leadership, cultural, and civic engagement programs and opportunities; and serves as a support and as advisers to you and your student organizations on campus. Community Development aims to provide you with a top-notch Columbia experience outside of the classroom.

MULTICULTURAL AFFAIRS

www.studentaffairs.columbia.edu/oma

The Office of Multicultural Affairs (OMA) promotes an inclusive university climate by acting as an educational resource that prepares you to succeed in a heterogeneous and ever-changing society. OMA provides a supportive environment for intercultural communication, constructive interaction, and mutual understanding. With the goal of creating a greater sense of community and improving students' quality of life, OMA facilitates an engaged campus environment and actively and collectively addresses many areas of diversity, including race and ethnicity, sexual orientation, socioeconomic status, country of origin, and gender identity/expression. OMA offers programs and services in diversity education and training, cultural and identity-based student organization advising, social justice programming, leadership development and training, mentoring, and advocacy. The OMA staff also supports students as they explore their own identities, better understand their own communities' histories, and connect with others who may share similar experiences. 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: enrollment; transition to Columbia; social, academic, and cultural acclimation; success in the classroom and student life; and preparation for life after college.

RESIDENTIAL PROGRAMS

www.studentaffairs.columbia.edu/resprograms

Residential Programs comprises a team of student, faculty, and professional staff who strive to enhance the quality of residential life by cultivating an atmosphere conducive to educational pursuits and the development of community among the student body. The residential experience is an integral part of a Columbia education, as living and learning in a diverse community stimulates mutual understanding and collective responsibility. Upon arrival at Columbia, you will meet your resident adviser (RA), an undergraduate student and peer mentor who will live on one of the floors of your residence hall. The RA will help facilitate connections between you and your hallmates, provide programming opportunities, and enforce shared community standards that will assist you and your neighbors in transforming your hall into a vibrant community. Residential Programs staff are also there to support you through any challenges you may experience adjusting to residential living at Columbia. Fraternity and Sorority Life is a vibrant part of our community that awaits you as well.

STUDENT ENGAGEMENT

www.studentaffairs.columbia.edu/engagement

Student Engagement is committed to building a strong sense of campus community, helping you enhance your leadership skills, engage in your communities, and explore the co-curricular opportunities available at Columbia University. The Student Engagement team forges a sense of community by providing opportunities for social interaction and participation in campus and community life through programs, including New Student Orientation, Live at Lerner, Urban NY, Alternative Break, and more. Whether you are looking for leadership opportunities, advisement with running your organization, planning an event, or starting a student group, or if you just want to brainstorm how to get involved, the Student Engagement staff can support you and help you become a part of campus life.

CENTER FOR CAREER EDUCATION

www.cce.columbia.edu

The Center for Career Education (CCE) helps students make informed decisions concerning career goals. The team at CCE works with students through every step of their career exploration, providing services and resources to help develop internship and job-search skills and identify interests, values, goals, and objectives. Students are encouraged to participate actively in the Center's walk-in hours, panels, site visits, workshops, and counseling appointments. CCE also facilitates connections among students, alumni, and organizations, helping students explore internships and jobs through career fairs, employer information sessions, Columbia Career Connections, and CCE recruitment programs.

INTERNATIONAL STUDENTS AND SCHOLARS OFFICE

www.columbia.edu/cu/isso

The ISSO offers full advisory services during its normal operating hours. International students with questions or requests concerning visas, immigration, travel, employment, or other matters relating to their stay at Columbia are welcome to walk in to speak to a program officer. Program officers and other staff members may also be reached by telephone and e-mail for general inquiries and are available for appointments on an individual basis. The ISSO also offers informational workshops, social events, and day and weekend trips throughout the academic year.

STUDENT SERVICES

Overview of Student and Administrative Services sas.columbia.edu

Computing Support www.columbia.edu/cu/cuit

Housing and Dining housingservices.columbia.edu dining.columbia.edu

Mail Services mailservices.columbia.edu

Registrar registrar.columbia.edu

Student Financial Services www.columbia.edu/cu/sfs

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

Health Services

HEALTH SERVICES

www.health.columbia.edu

Health Services at Columbia 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 Health Service fee, which is mandatory for all full-time students and students living in University housing.

HEALTH INSURANCE AND IMMUNIZATIONS

www.health.columbia.edu/insurance

www.health.columbia.edu/about/immunization-requirements

As a full-time residential student, you are required to enroll in Health Services at Columbia (for on-campus services) and must provide documentation of immunization against measles, mumps, and rubella (MMR). In addition, by University mandate, you are required to have medical insurance coverage for in-patient medical and psychological care, emergency services, and all other services not available on campus through Health 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 an alternate comparable insurance plan.

PRIMARY CARE MEDICAL SERVICES

www.health.columbia.edu/services/pcms

Primary Care Medical Services offers care for illness or injury, wellness programs, immunizations, allergy shots, a travel medicine program, a multidisciplinary eating disorders team, wellwoman care, contraception, pregnancy and sexually transmitted infection (STI) testing, and referral services.

COUNSELING AND PSYCHOLOGICAL SERVICES

www.health.columbia.edu/services/cps Appointments: 212-854-2878

Counseling and Psychological Services (CPS) offers one-on-one counseling, as well as a number of student support groups and workshops. Though the main office is on Lerner Hall's eighth floor, CPS can also be found in residence halls located across campus.

OFFICE OF DISABILITY SERVICES

www.health.columbia.edu/services/ods

The Office of Disability Services (ODS) empowers students with disabilities to realize their academic and personal potential by facilitating equal access and coordinating reasonable accommodations and support services for eligible students. Reasonable accommodations are adjustments to policies, practices, and programs that level the playing field for students with disabilities and provide equal access to Columbia's programs and activities. Examples include the administration of exams, services such as note taking, sign language interpreters, assistive technology, and coordination of accessible housing needs. Accommodation plans and services are custom designed for each student and are determined according to documentation and the student's program requirements. To register, you must submit both the Application for Accommodations and Services and disability documentation-the application and documentation guidelines are available online and at the ODS office. Students are encouraged to register with ODS within the first two weeks of the semester (or sooner!) to ensure that reasonable accommodations can be made for that term. Please note that students are not eligible to receive accommodations until they have registered with ODS.

ALICE!

www.health.columbia.edu/services/alice

Alice!, Columbia University's Health Promotion Program, is made up of a team of professional health educators who lead workshops, train student leaders, publish printed and online health information, and coordinate special projects. Alice! is best known for its interactive health Q&A Web service, Go Ask Alice!, which has a growing archive of more than 3,000 inquiries and responses on everything from sunscreen to STIs.

GAY HEALTH ADVOCACY PROJECT

www.health.columbia.edu/services/hiv-testing-and-treatmentghap

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.

THE SEXUAL VIOLENCE PREVENTION AND RESPONSE PROGRAM

www.health.columbia.edu/services/svprp

The Sexual Violence Prevention and Response Program (SVPRP) provides comprehensive and integrated education, support, and advocacy about sexual and relationship violence. Through innovative programming and community collaboration, SVPRP empowers students to heal from sexual violence, make informed decisions, and take action to end sexual and relationship violence. The program includes the Men's Peer Education Program, the Rape Crisis/Anti-Violence Support Center with Peer Counselors and Advocates, and the Disciplinary Procedure for Sexual Assault.

UNIVERSITY CHAPLAIN

www.columbia.edu/cu/earl

Columbia is home to scholars, students, and staff from many different religious backgrounds. Jewelnel Davis is the University chaplain, director of the Earl Hall Center, and associate provost of the University. The Office of the University Chaplain ministers to the individual faiths 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 the United Campus Ministries—a fellowship of over 20 religious life advisers representing specific faith traditions.

SECURITY

www.columbia.edu/cu/publicsafety

Emergency Numbers: On campus 4-5555/off campus 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 escorts within the Columbia University vicinity, issues crime alerts when necessary, employs many crime-prevention initiatives, and operates the "safe haven" program, which provides storefront locations across both campuses where people who feel threatened may take refuge.

University Chaplain

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 above) course in French at Columbia, the French 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 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 Te	est in German
Score	Course Placement
below 400	1101
400-569	1102
570–679	1201
680–779	1202
780+ satisfies lang	uage requirement

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 above) 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 above) course in Italian at Columbia, the Italian Department will award 3 points of AP credit, provided the grade in the course is a B or better. A score of 4 on a Italian language exam satisfies the foreign language requirement. No points are awarded. The Italian Department 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

Contact Information for Language Program Directors

continue Latin in the College should take the departmental placement test and/or see the program director prior to registration.

SPANISH

The Spanish Department 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 above) course in Spanish at Columbia, the Spanish 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 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.

LANGUAGE	CONTACT	LOCATION	TELEPHONE	E-MAIL
Akkadian	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Arabic	Taoufik Ben-Amor	308 Knox	212-854-2895	tb46@columbia.edu
Aramaic	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Armenian	Charry Karamanoukian	311 Knox	212-851-7083	ck2444@columbia.edu
Bengali	Dwijen Bhattacharjya	609 Knox	212-854-1599	db174@columbia.edu
Bosnian	Aleksandar Boskovic	718 Hamilton	212-854-3941	ab3865@columbia.edu
Cantonese	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Catalan	Elsa Úbeda	B04 Casa Hispánica	212-854-4530	eu2130@columbia.edu
Chinese	Lening Liu	407 Kent	212-854-7036	ll172@columbia.edu

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Foreign
Language
Requirement

Czech	Christopher Harwood	708 Hamilton	212-854-3941	cwh4@columbia.edu
Dutch	Wijnie de Groot	319 Hamilton	212-854-1856	wed23@columbia.edu
Finnish	Tiina Haapakoski	414 Hamilton	212-854-7859	tth2109@columbia.edu
French	Pascale Hubert-Leibler	519 Philosophy	212-854-4819	ph2028@columbia.edu
German	Richard Korb	404A Hamilton	212-854-2070	rak23@columbia.edu
Greek (Ancient)	Marcus Folch	617 Hamilton	212-854-3902	mf2664@columbia.edu
Greek (Modern)	Evangelos Calotychos	606 Hamilton	212-854-6988	ec2268@columbia.edu
Hebrew	Rina Kreitman	413 Knox	212-854-6519	rk2617@columbia.edu
Hindi-Urdu	Rakesh Ranjan	411 Knox	212-851-4107	rr2574@columbia.edu
Hungarian	Carol Rounds	518 Hamilton	212-854-0746	chr2@columbia.edu
Indonesian	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Irish	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Italian	Barbara Spinelli	508 Hamilton	212-854-0748	bs2165@columbia.edu
Japanese	Fumiko Nazikian	518 Kent	212-854-8345	fn2108@columbia.edu
Korean	Carol Schulz	402 Kent	212-854-5037	chs3@columbia.edu
Latin	Joseph Howley	601 Hamilton	212-854-4551	jah2220@columbia.edu
Persian	Ghazzal Dabiri	313 Knox	212-854-6664	gd2287@columbia.edu
Polish	Anna Frajlich-Zajac	704 Hamilton	212-854-4850	af38@columbia.edu
Portuguese	José Antonio Castellanos-Pazos	501 Casa Hispánica	212-854-0277	jc846@columbia.edu
Pulaar	Mariame Sy	310 Knox	212-851-2439	sms2168@columbia.edu
Punjabi	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Romanian	Mona Momescu	353 IAB	212-854-1554	mmm2120@columbia.edu
Russian	Frank Miller	701 Hamilton	212-854-8155	fjm6@columbia.edu
Sanskrit	Guy Leavitt	401 Knox	212-854-1304	sv2246@columbia.edu
Serbian/Croatian	Aleksandar Boskovic	718 Hamilton	212-854-3941	ab3865@columbia.edu
Spanish	Diana Romero	503 Casa Hispánica	212-854-8075	rd2170@columbia.edu
Spanish	Reyes Llopis-García	409 Casa Hispánica	212-854-7299	rl2506@columbia.edu
Swahili	Mariame Sy	310 Knox	212-851-2439	sms2168@columbia.edu
Swedish	Verne Moberg	414 Hamilton	212-854-4015	vam1@columbia.edu
Tagalog	Stephane Charitos	353 IAB	212-854-6341	sc758@columbia.edu
Tamil	D. Samuel Sudanandha	309 Knox	212-854-4702	dss2121@columbia.edu
Tibetan	Tenzin Norbu Nangsal	907 IAB	212-854-4677	tn218@columbia.edu
Turkish	Zuleyha Colak	313 Knox	212-854-0473	zc2208@columbia.edu
Ukrainian	Yuri Shevchuk	715 Hamilton	212-854-6137	sy2165@columbia.edu
Uzbek	Alan Timberlake	1228 IAB	212-854-8488	at2205@columbia.edu
Vietnamese	James Lap	407 Kent	212-854-5027	jtl60@columbia.edu
Wolof	Mariame Sy	310 Knox	212-851-2439	sms2168@columbia.edu
Yiddish	Miriam Hoffman	409 Hamilton	212-854-8026	mh60@columbia.edu
Zulu	Mariame Sy	310 Knox	212-851-2439	sms2168@columbia.edu

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Faculty Contacts for Science Majors

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 CSA adviser to plan your academic program. Students planning to follow a premedical program should also obtain a copy of the *Premedical Student's Guide* 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. Mary Putnam mputnam@astro.columbia.edu

Biology

Prof. Deborah Mowshowitz dbm2@columbia.edu

Chemistry

Dr. Vesna Gasperov vg2231@columbia.edu

Computer Science

Dr. Adam Cannon cannon@cs.columbia.edu

Earth and Environmental Sciences

Prof. Sidney Hemming sidney@ldeo.columbia.edu Prof. Terry Plank tplank@ldeo.columbia.edu

Ecology, Evolution, and Environmental Biology

Dr. Matthew Palmer (Environmental Biology) mp2434@columbia.edu Dr. Jill Shapiro (Evolutionary Biology and the Human Species) jss19@columbia.edu

Mathematics

Prof. Panagiota Daskalopoulos pdaskalo@math.columbia.edu

Planning Guide 2014–2015

Physics

Dr. Jeremy Dodd dodd@nevis.columbia.edu

Appendix C

COLUMBIA UNIVERSITY 2014–2015 ACADEMIC CALENDAR

FALL TERM 2014

September 1 Labor Day—University Holiday
September 2 First Day of Classes
September 12 End of Change of Program Period, Last Day to Add a Class
October 7 Last Day to Drop a Class for Columbia College
October 16 Midterm Date
November 3 Academic Holiday—No Classes
November 4 Election Day—University Holiday
November 13 Last Day to Drop a Class for SEAS
November 14 Last Day to Drop a Class for SEAS
November 27 Thanksgiving Day—University Holiday
November 28 University Holiday
December 8 Last Day of Classes
December 12–19 Final Exams

SPRING TERM 2015

January 20 First Day of Classes January 30 End of Change of Program Period, Last Day to Add a Class February 24 Last Day to Drop a Class for Columbia College March 9 Midterm Date March 16–20 Spring Break March 26 Last Day to Drop a Class for SEAS March 26 Last Day to Exercise Pass/D/Fail Option May 4 Last Day of Classes May 8–15 Final Exams May 20 Commencement

IMPORTANT NOTES:

- 1. Dates are subject to change. See the 2014–2015 *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

Lerner Hall, 7th floor 212-854-5453 www.health.columbia.edu/services/alice

ATHLETIC AND RECREATIONAL FACILITIES

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

BOOKSTORE

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

CENTER FOR CAREER EDUCATION

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

CENTER FOR STUDENT ADVISING

403 Lerner Hall 212-854-6378 www.studentaffairs.columbia.edu/csa csa@columbia.edu

Academic Success Programs www.studentaffairs.columbia.edu/asp

Preprofessional Advising www.studentaffairs.columbia.edu/ preprofessional

Scholars Program www.studentaffairs.columbia.edu/scholars

COLUMBIA UNIVERSITY INFORMATION TECHNOLOGY (CUIT)

212-854-1919 www.columbia.edu/cuit

COMMUNITY DEVELOPMENT

510–515 Lerner Hall 212-854-1886 www.studentaffairs.columbia.edu/comdev

COUNSELING AND PSYCHOLOGICAL SERVICES

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

DEAN OF COLUMBIA COLLEGE

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

DEAN OF COLUMBIA ENGINEERING

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

DINING SERVICES

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

DISABILITY SERVICES

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

FELLOWSHIPS OFFICE

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

FINANCIAL AID AND EDUCATIONAL FINANCING

618 Lerner Hall 212-854-3711 www.studentaffairs.columbia.edu/finaid

FRATERNITY AND SORORITY LIFE 515 Lerner Hall 212-854-6805 www.columbiagreeks.info

GRADUATION ZONE www.studentaffairs.columbia.edu/gradzone

HEALTH SERVICES 212-854-2284 www.health.columbia.edu

HOUSING SERVICES

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

INSURANCE AND IMMUNIZATION COMPLIANCE

Lerner Hall, 7th floor Insurance Office: 212-854-3286 Immunization Compliance Office: 212-854-7210

INTERCULTURAL RESOURCE CENTER

552 West 114th Street 212-854-0720 www.studentaffairs.columbia.edu/multicultural

INTERNATIONAL STUDENTS AND SCHOLARS OFFICE

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

JUDICIAL AFFAIRS AND COMMUNITY STANDARDS 609 Lerner Hall 212-854-6872 www.studentaffairs.columbia.edu/judicialaffairs

LIBRARY SERVICES Butler Library 212-854-7309 www.library.columbia.edu

MULTICULTURAL AFFAIRS 510 Lerner Hall 212-854-0720 www.studentaffairs.columbia.edu/multicultural

NEW STUDENT ORIENTATION PROGRAM (NSOP)

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

PARENT AND FAMILY PROGRAMS

601 Lerner Hall 212-854-2446 www.studentaffairs.columbia.edu/parents

PRIMARY CARE MEDICAL SERVICES

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

PUBLIC SAFETY

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

REGISTRAR See Student Service Center.

RESIDENTIAL PROGRAMS 515 Lerner Hall 212-854-6805

www.studentaffairs.columbia.edu/resprograms

STUDENT ENGAGEMENT

515 Lerner Hall 212-854-3611 www.studentaffairs.columbia.edu/engagement

STUDENT SERVICE CENTER

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

STUDY ABROAD

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

UNIVERSITY CHAPLAIN

Earl Hall Center 212-854-6242 www.columbia.edu/cu/earl