An introduction to academics at Dartmouth College
Using This Guide

To fully experience the academic opportunities at Dartmouth, you need to know the academic benchmarks that are required of you and how to navigate the curriculum. Explore, Engage, Excel is a critical first step in your journey.

Exploration will be a recurrent theme throughout this guide and throughout your relationships with advisors and mentors. The Undergraduate Deans Office expects that you will use this guide for the entirety of your first year at Dartmouth; the advising it offers and the description of courses will remain invaluable.

Advisors and mentors will keep asking you questions, such as:
- Why are you interested in that course?
- Why are you not interested in this other course?
- Where do you see opportunities to explore your creative side?
- What course would allow you to experience a previously unexplored academic discipline?

Don’t worry if you don’t know all the answers to these and other questions. There are tremendous resources at Dartmouth to support and encourage your exploration and discovery. The offices in Student Academic Support Services (see column to the right), in conjunction with your faculty advisor, will offer assistance and guidance at every step along the way.

Watch for questions and prompts on many of the following pages, and then do what they instruct: ask yourself questions, push yourself to reflect, look at the course offerings with a thoughtful and inquisitive eye, and allow yourself to be energized with possibilities.

We know that many transitions bring uncertainty and transitioning from secondary school to college is no exception. Allow EXPLORE, ENGAGE, EXCEL to serve as your first resource, and know that there are many other resources available to you this summer and when you arrive at Dartmouth.

Being honest, realistic, and open about any uncertainty and apprehension you are experiencing will enable you to best access these sources of support and potentially develop strategies before your first term at Dartmouth begins.

Let us now introduce you to YOUR ADVISING NETWORK. As you begin to work with your advising network, it is important that you understand what advising can offer, who will form your advising team, and how you can best utilize these important resources.

With a warm welcome,
The Undergraduate Deans Office

What exactly is advising?

Many students arrive with preconceived expectations for their education. The advising process will challenge these expectations and provide guidance as you explore the tremendous opportunities of a liberal arts education at Dartmouth. Your advisors will ask you to revisit and clarify your expectations, especially as you come to understand yourself — and Dartmouth — differently. Throughout the advising process, you will be encouraged to find balance within the choices that honor both your narrow academic interests and broader learning opportunities. We will challenge you to explore and expand your horizons at every stage of your undergraduate education.

First-year advising supports your transition from high school to college, encourages you to explore the opportunities and resources at Dartmouth, and assists you in making informed academic choices. As you read this guide and spend time with us during upcoming online advising chats or when reading our advising emails, you begin your own advising experience.

Who are the advisors?

Dartmouth faculty, administrators, and staff are all involved in advising students — in group settings, during programs and events, and, especially, through one-on-one appointments, open hours, and office hours. Advisors look forward to getting to know you and understanding your aspirations.

Undergraduate Deans

Undergraduate Deans Office
https://students.dartmouth.edu/undergraduate-deans/
- Offer advising and assistance on academic, personal, and social matters throughout your entire time at Dartmouth.
- Help students elect courses and explore the curriculum, academic requirements, educational goals, summer opportunities, career aspirations, and extra-curricular interests.
- Act as both a sounding board for students’ ideas and a link between students and resources.
- Strive to provide holistic advising through close collaboration with other offices in Student Academic Support Services (SASS). Together, our initiatives are directed toward anchoring students in the intellectual life of the College, supporting meaningful and inclusive interaction across difference, and facilitating engagement and personal development.

Additional Resources in SASS
- Academic Skills Center (ASC) https://students.dartmouth.edu/academic-skills/
- Student Accessibility Services (SAS) https://students.dartmouth.edu/student-accessibility/
- First Year Student Enrichment Program (FYSEP) https://students.dartmouth.edu/fysep/
- King Scholar Leadership Program http://www.kingscholars.com/
Accessing Advising

**Faculty**
- Each first-year student is assigned a faculty academic advisor, as well as the House Professor and affiliated faculty within your House Community.
- You will meet with your faculty advisor to elect courses and discuss schedules and issues of an academic nature.
- When you declare a major, a major advisor from that academic department will help you shape your course of study within your chosen field.

**Peer Advisors**
Peer advisors include Undergraduate Advisors (UGAs), tutors, FYSEP Mentors, Pre-Health Peer Mentors, and others. As with other sources of advising, it will be important for you to evaluate your peer advisors’ advice alongside your goals, aspirations, and values, and in the context of the advising you receive from your faculty advisor, undergraduate dean, and pre-major advisor.

**Other Faculty, Administrators, and Peers**
- Students are encouraged to assume increasing responsibility for cultivating advising relationships during their time at Dartmouth.
- This includes expanding their network of advisors, proactively seeking desired resources, considering their own needs and goals, and balancing multiple sources of advising.

**How do I take full advantage of advising?**
You have a role to play in making your advising relationship successful. Academic advising works best when a student takes the initiative to seek guidance and maintains ongoing advising relationships. To make the best possible decisions for your academic career, you should be proactive, think critically about the information you receive, and invest time in meeting with your advisors regularly. Your advisors want to help you make sense of all that Dartmouth has to offer but need your full engagement in the process. This guide is designed to provide you with the information you need right now and throughout the summer. If you feel overwhelmed by the process or the choices ahead of you, come back to this guide and – in particular – the timeline to the right.

**Remember:** When you invest time and energy in developing meaningful advising relationships, you position yourself to make highly informed choices while at Dartmouth, and to develop valuable relationships with advisors that may enrich your life for years to come.

It’s time to begin! This guide is the first of several interactions we will have with you this summer. Watch for advising emails about exploring the curriculum, preparing for the meeting with your faculty advisor, and course election.

We can’t wait to meet you, support your exploration, and watch you grow and learn as a member of the Dartmouth community.

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**COURSE EXPLORATION AND TRANSITION TO COLLEGE TIMELINE**

**EARLY JULY**
- Explore this guide from cover to cover immediately upon receipt.
- Begin the worksheet on page 38.

**MID-SUMMER**
- Read emails from New Student Orientation and the Undergraduate Deans Office.
- Deeply explore academic department and program websites – dig around!

**LATE SUMMER**
- Participate in online advising chats (registration links will arrive by email from the Undergraduate Deans Office).
- Complete the Advising Questionnaire in DartHub.
- You are not expected to arrive at Dartmouth with all your courses chosen. Don’t rush the decision-making process. Take your time!

**NEW STUDENT ORIENTATION**
- Attend academic and curricular programming which will inform course election.
- You will continue to explore the interests you’ve discovered in this guide by:
  - talking with your faculty advisor, undergraduate dean, and faculty;
  - participating in academic and curricular programming;
  - and attending as many academic department and program Open Houses as possible.

**CLASSES BEGIN**
Wednesday, September 12
Remember: Part of your academic journey is leaving the path. You are not expected to have all the answers – engage with the QUESTIONS.

**YOUR TO DO LIST:**
1. Grab Post-its, highlighters, and a big pad of paper.
2. Find a comfortable place to sit, then take your time and really read this guide.
3. Imagine, be curious, don’t limit yourself, and EXPLORE.
4. Utilize the worksheet on page 38 to organize your thoughts and discoveries.
Dartmouth College educates the most promising students and prepares them for a lifetime of learning and of responsible leadership, through a faculty dedicated to teaching and the creation of knowledge.

Dartmouth’s current curriculum was established by the faculty out of the desire to reflect contemporary changes in the many areas of human knowledge and to prepare students for citizenship in a complex world. In the Recommended Courses for First-Year Students section of this guide, we have included descriptions of those courses most frequently taken by first-year students in the fall term.

A complete inventory of course offerings and academic regulations may be found in the College bulletin entitled Organization, Regulations, and Courses (ORC). It is published each fall and is available online at http://dartmouth.smartcatalogiq.com/current/orc.aspx. First-year students elect fall term courses during Orientation. To assist in electing courses, students meet with a faculty advisor; undergraduate deans, department and program chairs, and individual professors are also available for consultation. Important academic and curricular information in the following sections will guide you as you make your preliminary plans.

Academic Curriculum

THE IMPORTANCE OF ACADEMIC INTEGRITY

The integrity that you bring to your academic work contributes to your own learning, protects against one person taking unfair advantage over other students, promotes trust among students and with your faculty, and appropriately credits the work of scholars who have paved the way for you. In general, the Academic Honor Principle prohibits: plagiarism; giving or receiving assistance on examinations or quizzes; submitting the same work in more than one course; and unauthorized collaboration. A student who violates the Academic Honor Principle, regardless of their intent, should expect to be suspended from the College for a period of time.

You will be asked as part of the pre-matriculation process to review a document titled Sources and Citations at Dartmouth College, which provides in-depth information about the Academic Honor Principle (http://writing-speech.dartmouth.edu/learning/materials/sources-and-citations-dartmouth). In each of your courses, we encourage you to ask about the Honor Principle if your professor has not already introduced the conversation.

REQUIREMENTS FOR THE BACHELOR’S DEGREE

Students should refer to Organization, Regulations and Courses catalog, known as the ORC, for a full description of all the requirements for the degree. In general, enrolled students take three courses per term for twelve terms. To earn the bachelor’s degree, a student must complete a major, and receive credit for 35 courses, no more than eight of which may be passed with the grade of D. Students are also required to complete the first-year writing requirement, a first-year seminar, a foreign language requirement, distributive requirements that reflect the breadth of a liberal arts education, three world culture courses, three physical education credits, and a swim test.

It is the student’s responsibility to ensure that they have met all requirements (DartWerks, an individualized online degree audit tool available at all times, assists students in keeping track of progress towards a degree).

LIBERAL ARTS CURRICULUM

Dartmouth’s liberal arts curriculum lets you explore big ideas and pursue your particular passions. It is about BREADTH: a liberally educated person is one who has been exposed to a wide range of fields and insights. It also features DEPTH: students are required to complete some concentrated course of study in which they will display deep knowledge and mastery. At Dartmouth, you will engage with culture, creativity, compassion, and critical thinking as you explore the many courses available to you.

Through a liberal arts curriculum, we hope Dartmouth’s students begin a lifetime quest — an intellectual journey — that prepares them for the challenges and opportunities of the twenty-first century.

FIRST-YEAR WRITING REQUIREMENT

All first-year students are required to fulfill Dartmouth’s first-year writing requirement. Through the first-year writing courses, the college offers entering students a valuable opportunity to develop the thinking, research, writing, and presentation abilities that characterize intellectual work in the academy and in educated public discourse.

Most first-year students take Writing 5 (or its two-term equivalent, Writing 2-3) and a First-year Seminar to fulfill this writing requirement. Another way of fulfilling the first-year writing requirement is to take Humanities 1–2, an interdisciplinary two-term course for first-year students offered only in fall and winter terms. Students interested in applying for Humanities 1–2 must contact the Humanities 1–2 program during the summer prior to registering for fall term. For details, see www.dartmouth.edu/~hums1-2.

Writing 5 focuses on the writing process, emphasizing careful analysis, thoughtful questions, and strategies for effective argument. Students taking Writing 5
are assigned to take the course either in the fall or winter; this assignment cannot be changed.

Writing 2-3 is a two-term course that provides more intensive guidance through the reading, writing, and research processes, including individual support from teaching assistants and a culminating research project. Students likely to benefit from more support in these areas are asked to complete an online directed self-placement process for writing courses during the summer. They are then given a recommendation for placement in Writing 2-3 or Writing 5. Writing 2-3 is taken in lieu of Writing 5. Writing 2-3 is offered in fall and winter terms only, and students must complete both terms and a First-year Seminar in order to satisfy the first-year writing requirement.

First-year Seminars offer every first-year student an opportunity to participate in a course structured around intensive writing, independent research, small group discussion, and reading across the disciplines. You should keep in mind three scheduling guidelines:

1) Writing 5 (or Writing 2-3 or Humanities 1) is a prerequisite for enrollment in a First-year Seminar (or Humanities 2).
2) The First-year Seminar (or Humanities 2) must be taken during the first year, in the term immediately following completion of Writing 5 (or Writing 2-3 or Humanities 1).
3) A student is not eligible to take part in an off-campus program until the First-year Seminar (or Humanities 2) is completed.

For more information about the first-year writing requirement and placement and enrollment policies for Writing 2-3, Writing 5, and First-year Seminar, visit: http://writing-speech.dartmouth.edu/curriculum/placement-and-enrollment-policies.

**LANGUAGE REQUIREMENT (COURSES NUMBERED 1, 2, AND 3)**

The language requirement follows from the conviction that mastery of another language unlocks a new world of people, cultures, and ideas. A student must complete this requirement before the end of the seventh term unless exempted based on College Entrance Examination Board (CEEB) scores or by a Dartmouth placement exam. Where no department or program exists to determine a student’s fluency in a language, Associate Professor of Linguistics and Cognitive Sciences David Peterson will determine fluency. Introductory language courses do not fulfill Distributive or World Culture Requirements.

**DISTRIBUTIVE REQUIREMENT (“DIST”)**

Dartmouth’s requirement of Distributive courses allows you to explore broadly several fields and gain new perspectives. Both the Distributive Requirement and the World Culture Requirement allow for discovery and encourage exposure to new interests.

Each student must take courses in each of the following areas:

- one in Arts: creation, performance, history, or criticism (ART)
- one in Literature: the history, criticism, or theory of texts (LIT)
- one in Systems and Traditions of Thought, Meaning, and Value (TMV)
- one in International or Comparative Study (INT)
- one in Social Analysis (SOC)
- one in Quantitative and Deductive Sciences (QDS)
- two in the Natural Sciences: without/with laboratory (SCI/SLA)*
- one in Technology or Applied Science: without/with laboratory (TAS/TLA)*

* One of the courses taken in SCI/SLA and TAS/TLA must have a laboratory, experimental, or field component.

**WORLD CULTURE REQUIREMENT (“WCULT”)**

As with “Distributives,” the World Culture Requirement supports the belief that a liberally educated person is one who has been exposed to a wide range of fields and insights.

Each student must take at least one course in each of the following cultural areas:

1) Western Cultures (W)
2) Non-Western Cultures (NW)
3) Culture and Identity (CI)

All undergraduate courses other than Writing 2, 3, and 5 and language courses used to fulfill the foreign language requirement may potentially satisfy a Distributive Requirement. Such a course may also satisfy one of the World Culture Requirements. For example, a course in 19th-century British fiction might satisfy both the literature requirement under the Distributive category and the western cultures requirement under World Culture.

It is thus possible, by careful selection of courses which satisfy requirements in multiple categories, to complete both the Distributive and World Culture Requirements with ten courses. These may also overlap with major requirements. The online course catalog (ORC) helps students to plan, and the termly Timetable of Class Meetings provides up-to-date information as to which courses are being offered and which satisfy Distributive and World Culture categories.

Distributive and World Culture Requirements cannot be fulfilled with pre-matriculation credit. Courses satisfying Distributive and World Culture Requirements must be passed with a regular letter grade.

**MAJOR**

A major assures that when you graduate from Dartmouth you will have gained mastery in the method and substance of a single area of academic inquiry. Ideally, the area of major study provides a path for intellectual exploration and the satisfaction of becoming proficient at a high level in your area of interest.

A student must successfully complete a major program, which usually consists of eight to ten courses in the major subject in addition to those courses prerequisite to the major, and other requirements specified by the department or program. Students may also declare modified or special majors that involve more than one academic department or program. Students must declare a major by the end of their fifth term in residence, or immediately thereafter, depending upon a student’s enrollment pattern.

We expect you to arrive with an open mind regarding your intellectual pursuits, and broadly explore the curriculum during your first four terms, even if you are already contemplating a major. Take classes in departments you could not access in high school,
**Academic Curriculum and Opportunities**

follow your curiosity, and continue to look at the many possibilities with an adventurous spirit.

First-year students thinking of majoring in biology, chemistry, earth sciences, engineering sciences, mathematics, or physics are encouraged to take the Math Placement Exam, available in late summer (See local placement exam information on page 9).

**PHYSICAL EDUCATION (PE)**
The Physical Education requirement provides students with the opportunity to experience a variety of activity courses and, in turn, appreciate the importance of the balance of a healthy mind and body. All students are required to satisfactorily complete three credits of physical education by graduation. To receive credit for these courses/activities, students must register in advance on DartHub. You can fulfill this requirement in many ways. PE courses include yoga, Zumba, Dart-Fit, modern dance, ballroom dance, tennis, golf, racquetball, squash, swimming, kickbox aerobics, Pilates, barre fusion, spinning, fencing, table tennis, and strength training, as well as skiing and snowboarding in the winter and sailing in the summer. The three PE credits may be fulfilled by participation in varsity and club sports, some dance groups, and many Outdoor Programs Office/Dartmouth Outing Club activities. These courses are Pass/No Pass and are in addition to the 35 credits you need to graduate. Students must also complete an untimed 50-yard swim. www.dartmouthrecreation.com

**FIRST-YEAR RESIDENCY REQUIREMENT**
All first-year students are required to be in residence for all three terms of the first year, after which they may choose leave terms or apply for off-campus programs as part of their enrollment pattern (D-Plan).

**ENROLLMENT PATTERN: THE “D-PLAN”**
Dartmouth’s academic calendar consists of four terms that roughly correspond with the seasons. A year-round academic calendar challenges you to define personal educational goals and provides considerable opportunity to shape your educational program. Credit for 35 courses is a requirement for the Bachelor of Arts degree. Students normally take three courses each term, are enrolled for a total of 12 terms, and take three leave terms.

Students are required to be in residence in Hanover in the fall, winter, and spring of their first and senior years. In addition, members of the sophomore class are required to be in residence the summer term between their sophomore spring and junior fall. Other than these required residence terms, students will need to construct an enrollment pattern that takes into account intended major or minor subjects, off-campus study, exchange programs, internships, extracurricular activities, and preferred spacing of vacations. International students need to consider their particular visa status requirements when constructing their D-Plan and should consult with the Office of Visa and Immigration Services (OVIS) to ensure that their D-Plan conforms to immigration regulations. You can find more information about the D-Plan in the ORC at http://dartmouth.smartcatalogiq.com/en/current/orc.

**GRADE REPORTS**
In most courses letter grades are assigned on a 4.0 scale, with an A equal to 4.0, indicating excellence and F equal to 0 or failure (there is no grade of F at Dartmouth). Grades reported on the official transcript include the median grade given in the class as well as the class enrollment. Students who make particularly favorable impressions on faculty may receive a citation for meritorious performance. Instructors can submit progress reports for students who are experiencing academic difficulty. Since not all instructors submit reports, students are always advised to consult with instructors if they have questions about their standing in their courses.

**STUDENT RECORDS POLICY**
The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. Please find more information in the FERPA section of the Student Handbook (online).

**OFF-CAMPUS PROGRAMS**
The Frank J. Guarini Institute for International Education (603) 646-1202 www.dartmouth.edu/~ocp
Off-campus programs are an important extension of the regular Dartmouth curriculum, offering undergraduate students safe, rigorous, learning experiences that promote disciplinary scholarship, foreign language acquisition, cross-cultural competence, and reflection in a global context. A distinguishing feature of Dartmouth’s model is strong faculty involvement that leads to the development of meaningful relationships and mentoring between students and program directors. Consistently, over fifty percent of Dartmouth undergraduate students participate in one or more Language Study Abroad (LSA), Foreign Study Programs (FSP), or Domestic Study Programs (DSP) before they graduate. Students returning to campus after participating in a program often speak of experiences that were rich — academically and culturally — as well as life-changing.

At present, the College offers more than forty different off-campus programs and thirty exchange program options. For more information on foreign and domestic study programs, please visit the Frank J. Guarini Institute for International Education website at www.dartmouth.edu/~ocp.

**LANGUAGE STUDY ABROAD (LSA)**
Dartmouth College requires proficiency in a foreign language and offers unique opportunities for language study (See Foreign Language Requirement on page five). Maintaining programs in multiple countries, Dartmouth’s LSAs are offered in support to the College’s commitment to understanding and communicating with people of other cultures. On most LSA programs, undergraduate students live with local families which gives students a personal context and access to the culture as a whole. Studying the language, literature, and civilization reveals historical and contemporary cultural patterns. During New Student Orientation, students consider whether to continue studying a foreign language they learned in the past or begin a new language. With the guidance of family and a faculty advisor, Dartmouth students can complete their foreign language requirement in a variety of ways:

1) Exemption on entrance: students whose achievement is sufficiently high are not obligated to study a foreign language.
2) Placement in foreign language courses numbered 1, 2, or 3, and completion of the language requirement on campus. This option is open in Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish. Students normally complete this sequence in their first year.
3) Language Study Abroad (LSA) in French, German, Italian, and Spanish: A student may choose to satisfy the language requirement through a combination of preparatory courses at Dartmouth and one term of language study abroad in a program where the foreign language course numbered 3 is offered. A majority of students elect to take advantage of Dartmouth’s language programs in foreign countries where they study with Dartmouth faculty and local instructors while living with local families. Students enroll in three courses while participating in the program and study language, culture, and literature during the term. Since enrollments in most programs are limited, not everyone who applies will necessarily have the opportunity to participate.

### Academic Opportunities

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Take advantage of the varied experiences of your mentors. Ask them what they would do differently if they went to college today.

In addition to the LSA programs, many departments also offer Advanced Language Study Abroad (LSA+) programs. The LSA+ is a program designed for students who satisfy the language requirement and are prepared for a more advanced language study abroad experience. Dartmouth’s LSA+ programs are offered in Brazil (Portuguese), China, France, Morocco (Arabic), Italy, Japan, Russia, Peru (Spanish), and Spain.

FOREIGN AND DOMESTIC STUDY
Dartmouth’s foreign and domestic study programs are designed to expand the curriculum into new areas of significant intellectual discovery and cultural understanding through supervised study and residence in localities beyond Hanover.

In addition to LSA and LSA+ offerings, most foreign language departments have Foreign Study Programs (FSP). FSPs in a language department offer advanced study of a country’s language, literature, and culture. The principle objective is an in-depth experience of the life and culture of the country through substantive courses as well as social interactions with the local people.

The College also offers a wide array of foreign and domestic study programs conducted primarily in the English language. These programs are designed to take advantage of resources unique to the host country or off-campus location in the United States. Like their language-based counterparts, these programs offer students opportunities to study other cultures and disciplines in depth as well as gain new perspectives on the United States.

Various departments maintain Foreign Study Programs in Argentina, Austria, Brazil, China, Costa Rica, Czech Republic, France, Germany, Ghana, Greece, India, Ireland, Italy, Morocco, New Zealand, Southern Africa, Spain, and the United Kingdom. While most of these programs are affiliated with a foreign university, some, such as the Biological Sciences program, involve travel and extensive fieldwork. The College offers Domestic Study Programs in Los Angeles CA, Tampa FL, Santa Fe NM, and Washington DC.

EXCHANGE PROGRAMS
Dartmouth has several formal exchange programs inviting students to attend another institution and receive course credit (see Transfer Terms). The Twelve College Exchange network includes Amherst, Bowdoin, Connecticut (including the Eugene O’Neill National Theatre Institute), Mount Holyoke, Smith, Trinity, Vassar, Wellesley, Wesleyan, Wheaton, and the Williams Mystic Seaport Program in American Maritime Studies.

Exchange programs also exist with Morehouse College and Spelman College (Atlanta, Georgia); a selected German university through the Federation of German American Clubs; the Hebrew University of Jerusalem (Israel); Keio University, Kanda University, and Waseda University (Japan); Keble College at Oxford University and University College London (United Kingdom); University of Copenhagen and Technical University (Denmark); Chulalongkorn University (Thailand); Bocconi University (Italy); The Chinese University of Hong Kong (CUHK); Yonsei University (South Korea); and the Consortium for Advanced Studies Abroad (Caba).

Dartmouth College encourages interested students to participate in Dartmouth-sponsored study away programs. Details of the sponsored programs, such as Foreign Study Programs (FSP) and Language Study Abroad (LSA), are available on the Guarini Institute website: www.dartmouth.edu/~ocp.

TRANSFER TERMS
Students may transfer up to four credits towards their Dartmouth degree by participating in a sponsored exchange program, or by independently arranging a Transfer Term through a non-Dartmouth sponsored program.

Students apply for exchange programs through The Guarini Institute for International Education. The students who are accepted apply to have their courses approved in the same manner as they would for Transfer Terms. Students apply for Non-Dartmouth Sponsored Programs, or Transfer Terms, through the Registrar’s Office by submitting their application for the specific upcoming term. Please see the Transfer Terms (Non-Dartmouth Study Away) section on the Registrar’s website for more information: www.dartmouth.edu/~reg/enrollment/studyaway/.

Dartmouth students are permitted to apply the maximum of four equivalent credits from non-Dartmouth sponsored programs to their Dartmouth degree. This limit includes any credit transferred to Dartmouth for college coursework completed prior to matriculating as a first-year student. Please see the Transfer Terms (Non-Dartmouth Study Away) section on the Registrar’s website for more information: www.dartmouth.edu/~reg/enrollment/preamtriculation_credit.html.

CO-CURRICULAR OPPORTUNITIES
Students are encouraged to take advantage of Dartmouth’s rich variety of co-curricular opportunities. Engaging in these opportunities can provide a sense of community and continuity and allow you to integrate your learning inside and outside of the classroom.

• House Communities increase student access to faculty in residential spaces and create opportunities for enhanced social ties and shared experiences in the residential system. Every student has a house membership, regardless of where you live. https://students.dartmouth.edu/residential-life/house-communities/about-house-system

• Dartmouth has many Centers and Institutes, including the Dartmouth Center for Social Impact, Hood Museum of Art, Hopkins Center for the Arts, Institute for Writing and Rhetoric, John Sloan Dickey Center for International Understanding, Nelson A. Rockefeller Center for Public Policy, and Tucker Center. https://home.dartmouth.edu/centers-institutes

• The Life and Community tab on Dartmouth’s homepage describes many other opportunities, including the Collis Center for Student Involvement, Student Wellness Center, Office of Pluralism and Leadership, and the Dartmouth Outing Club. http://dartmouth.edu/life-community
Recommended Courses for First-Year Students

This section provides a brief introduction to Dartmouth’s academic departments and programs and recommended courses for first-year students.

The following pages include descriptions for selected fall-term courses recommended by each academic department and program. The 2018-2019 version of the course catalog, Organization, Regulations and Courses (ORC), will be available online in early September.

Course Designations
• The designations F (fall), W (winter), S (spring) and X (summer) indicate the term in which the course is offered.
• Distributive and World Culture codes assigned to each course (see page five for more information) are indicated after the course descriptions.
• Each academic department numbers courses differently. All courses listed in this guide are recommended for first-year students. Pick the courses that interest you, regardless of the number.

Please note: Course listings are subject to change; consult department and program websites for updated information.

The courses in this section do not represent an exhaustive list; please make sure to explore department and program websites, especially if you know that you are interested in that particular discipline.

As you immerse yourself in these intriguing course descriptions, please keep the following “big ideas” in mind:
• You are embarking on a liberal arts education— one that offers a broad understanding of the world with mastery of at least one field; the capacity to think critically and creatively; powerful communication skills; an ease at working in teams; scientific literacy; the ability to engage the arts and humanities; and the development of principled leadership skills.
• Take full advantage of this curriculum, from the very beginning. Let this first exploration of course offerings be the start of the “breadth” of your liberal arts education.
• There is no wrong class— each class that you take will provide an opportunity for growth, exploration, and increased knowledge.
• Expect to be challenged personally, intellectually, and socially. And reach out for support from the many resources on campus, especially the ones introduced in this guide.
• Your job this summer is to explore, reflect, and envision. We hope that you end this period of reflection with confidence and excitement about your transition to Dartmouth.
• We’ll be in touch at several points during the next few months with further instruction, inspiration, and important information. Until then … we wish you well!

African and African American Studies (AAAS)
The African and African American Studies Program at Dartmouth College originated in 1969, making it one of the oldest programs of its kind in the nation. Utilizing innovative avenues of theoretical and empirical investigation, students explore questions and issues that shape the historical, social, political, and cultural dimensions of the African Diaspora within a global context. The multidisciplinary curriculum in AAAS offers a major, minor, and an honors program for outstanding students.

The following courses are recommended for first-year students (AAAS):
10. Introduction to African-American Studies (W)
11. Introduction to African Studies
25. Constructing Black Womanhood (W)
40. Gender Identities and Politics in Africa (S)
44. Contemporary Africa (F)
51. Masterpieces of Literature from Africa (F)
63. Race Matters—“Race” Made to Matter (W)
80.08. African-American Religion and Culture in Jim Crow America (F)
80.09. Carceral Geographies (W)
81.07. Black Noir (W)
83.06. Caribbean Lyric and Literature (S)
88.08. Ethnography of Violence (S)

SELECTED FALL TERM COURSES (AAAS)
10. Introduction to African-American Studies
A multidisciplinary investigation into the lives and cultures of people of African descent in the Americas. Topics may include: the African background, religion and the black church, popular culture, slavery and resistance, morality and literacy, the civil rights movement, black nationalism, theories of race and race relations. Dist: SOC; WCult: CI.

44. Contemporary Africa: Exploring Myths, Engaging Realities
This course focuses on processes, relationships, and experiences that have shaped, and continue to shape, the lives of Africans in many different contexts. These include issues of ecology and food production, age, gender, ethnicity, exchange, colonialism, apartheid, and development. We will then embark on in-depth readings of ethnographies that engage these issues and themes. In the processes we will move beyond prevailing stereotypes about Africa to engage the full complexity of its contemporary realities. Dist: SOC; WCult: CI.

51. Masterpieces of Literature from Africa
This course is designed to provide students with a specific and global view of the diversity of literatures from the African continent. We will read texts written in English or translated from French, Portuguese, Arabic and African languages. Through novels, short stories, poetry, and drama, we will explore such topics as the colonial encounter, the conflict between tradition and modernity, the negotiation of African identities, post-independence disillusion, gender issues, apartheid and post-apartheid. In discussing this variety of literatures from a comparative context, we will assess the similarities
and the differences apparent in the cultures and historical contexts from which they emerge. Readings include Chimamanda Ngozi Adichie's Things Fall Apart, Naguib Mahfouz's Midaq Alley, Calixthe Beyala's The Sun Hath Looked Upon Me, Camara Laye's The African Child, and Luandino Vieira's Luanda.

Dist: INT or LIT; WCult: CI.

80.08. African-American Religion and Culture in Jim Crow America
Jim Crow segregation in the United States compelled many African American men and women to use their bodies—their hands, feet, and voices—to create sacred scenes, sounds, and spaces to articulate their existence in America. This seminar focuses on religious production to explore African American culture in the post-Civil War era. Students will analyze a variety of sources, including music, visual art, film, religious architecture, sermons, food, theater, photography, and news media.

Dist: ART; WCult: CI.

Anthropology (ANTH)
Anthropology seeks to understand what makes human beings a single species and why that unity finds expression in such culturally diverse ways. Anthropology ranges from scientific inquiry into human biological and cultural evolution to humanistic concerns with people's day to day experiences across time and space. The discipline's four subfields of archaeology, biological anthropology, linguistic anthropology, and sociocultural anthropology bring together the sciences and humanities to ask holistically what it means to be human.

The following courses are recommended for first-year students (ANTH):
01. Introduction to Anthropology (F)
03. Introduction to Cultural Anthropology (WS)
06. Introduction to Biological Anthropology (S)
08. Rise and Fall of Civilizations (F)
09. Language and Culture (F)
11. Ancient Native Americans (W)
14. Death and Dying (W)
17. Anthropology of Health and Illness (W)
39. Archaeology of the Near East (F)
41. Human Evolution (F)

SELECTED FALL TERM COURSES (ANTH)
01. Introduction to Anthropology
A comprehensive study of humankind, the course will survey and organize the evidence of our biological and cultural evolution. It will explore the unity and diversity of human cultural behavior as exemplified in the widest variations in which this behavior has been manifest. Lectures and readings will describe the dialectic relationship between the material conditions of our existence on the one hand, and on the other, the unique human capacity for creativity both in thought and in action. The focus of this course will be not only to outline the conditions and conditioning of our cultural past and present, but also to indicate possibilities for future evolution of human culture and experience.

Dist: SOC; WCult: CI.

08. Rise and Fall of Civilizations
One of the most intriguing questions in the study of human societies is the origins of cities and states or the transformation from small kinship-based societies to large societies that are internally differentiated on the basis of wealth, political power, and economic specialization. Most of our knowledge of early civilizations comes from archaeology. This course examines the explanations proposed by archaeologists for the development of the first cities and state societies through a comparative study of early civilizations in both the Old World and the Americas.

Dist: INT or SOC; WCult: NW.

09. Language and Culture
This course will introduce students to the study of human language as a species-specific endowment of humankind. In this investigation we will examine such issues as: 1) the relationship between language use (e.g., metaphoric creativity) and cultural values, 2) the relationships between language diversity and ethnic, political, economic stratification, 3) language use and the communicative functions of individual identity, thoughts, and intentions in face-to-face interaction, 4) the cultural patterning of speech behavior, and 5) whether or not the structure of specific languages affects the characteristics of culture, cognition, and thought in specific ways.

Dist: SOC.

39. Archaeology of the Near East
This course provides an introduction to the civilizations of the ancient Near East and to the history of archaeological research in this important region. Encompassing the modern nations of Iraq, Iran, Syria, Turkey, Jordan, Lebanon and Israel/Palestine, the Near East saw the emergence of the world's first villages, cities, and empires, and is therefore central to our understanding of human history. Following an overview of its geography, this course offers a survey of Near Eastern cultural development, art, and archaeology from the earliest evidence of human settlement around 13,000 BC to the conquest of the region by Alexander the Great.

Dist: INT or SOC; WCult: NW.

41. Human Evolution
The fossil record demonstrates that humans evolved from an extinct ape that lived in Africa more than 5 million years ago. Paleoanthropology is the branch of biological anthropology that seeks to document and explain the evolution of our lineage using paleontological and archaeological data. This course provides a survey of human evolution in light of current scientific debates in paleoanthropology. Emphasis will be placed on the use of bones and teeth to infer the biology and behavior of prehistoric species.

Dist: SCI.

Arabic
(See program description under Middle Eastern Studies.)

Art History (ARTH)
The areas of interest represented among the art history faculty are broad, spanning many centuries of European, American, and Asian art. On-site study is available to students who enroll in the Foreign Study Program in Rome, Italy, offered annually in the spring term. The mission of the Department of Art History includes providing courses and training to majors and pre-professionals in the discipline, offering general courses to develop visual literacy and art-historical awareness in the college at large, and promoting overall understanding of the visual arts in the contemporary world. Students majoring in art history are well-prepared for graduate study, and an advanced degree in art history can lead to careers in...
Recommended Courses for First-Year Students

scholarship and teaching, museum work, commercial art galleries, auction houses, arts administration, and public and private art foundations. In addition, many art history students have followed their undergraduate studies with professional training in law, business, and medicine. Most art history courses carry no prerequisite and are open to first-year students. Questions about specific courses should be directed to the appropriate faculty member.

ADVANCED PLACEMENT
No pre-matriculation credit or exemption is given for courses in art history.

SELECTED FALL TERM COURSE (ARTH)
1. Bodies and Buildings: Introduction to the History of Art in the Ancient World and the Middle Ages
This course studies basic problems and new directions in the understanding of architecture, sculpture, and painting in Europe and the Near East from the earliest times to the end of the Middle Ages. It introduces students to the language of art criticism and method, as well as the relationships of the arts to each other and to their historical contexts. Special attention is given to the human body and visual narrative. Dist: ART; WCult: W.

Asian Societies, Cultures, and Languages (ASCL)
Asian cultures have long and productive traditions in science and technology, arts and literature, political philosophy, business and economics, religious beliefs and practices—traditions that have become dominant forces in the contemporary world. A basic knowledge of Asia is vital to Dartmouth students because Asia figures prominently in issues related to international law and human rights, the environment and global warming, economic development and migration, media and the arts, and technology. ASCL provides courses that present students with a range of methodologies used by Asia specialists from various disciplines. ASCL offers a flexible major that allows students to focus their study on a specific country or region of Asia. Students can also adopt a discipline specific approach to Asia and focus on Asian literatures, languages, religions, histories, or visual cultures.

The following courses are recommended for first-year students (ASCL):
- CHIN 1 First Year Courses in Chinese
- JAPN 1 First Year Courses in Japanese
- ASCL 1.03 Japanese Food
- ASCL 10.02 Introduction to Korean Culture
- ASCL 10.03 Introduction to Japanese Culture
- ASCL 11.01 Introduction to Chinese Culture
- ASCL 11.04 Introduction to South Asia

Astronomy
(See program description under Physics and Astronomy.)

Biological Sciences (BIOL)
The Department of Biological Sciences offers a highly flexible major and a wide variety of courses, research opportunities, and experiences for Dartmouth undergraduates. The research interests of the faculty include molecular and cellular biology, ecology and evolutionary biology, developmental biology, neurobiology, and computational biology. Biology majors can focus their studies on a wide range of different areas within biology, and the major can include selected courses from other departments. The Department of Biological Sciences offers a Foreign Study Program in tropical ecology that includes an introduction to studies of rain forests, coral reefs, and other tropical environments.

Please see our Welcome Class of 2022 page at: https://biology.dartmouth.edu/welcome-class-2022. For many students, BIOL 11 (The Science of Life) is the entrance course to the major and the minor. This is a topics-based course with no laboratory that is offered in the fall, winter and spring of the 2018-2019 academic year. BIOL 11 may be counted toward the Biology major or minor if it is taken as the first Biology major course. The Biology department has established an online self-assessment exam for students to use as a guide to determine if they should start their study of Biology with BIOL 11 or if they should enroll directly in a more advanced Foundation course (BIOL 12-16).

Topics for the three offerings of BIOL 11 during the 2018-2019 academic year are:
- Fall: Major Events in the History of Life and the Human Genome
- Winter: Emerging Infectious Diseases—How Microbes Rule the World
- Spring: Animal Minds

Foundation courses include BIOL 12 (Cell Structure and Function, fall and spring); BIOL 13 (Gene Expression and Inheritance, winter and summer); BIOL 14 (Physiology, fall and winter); BIOL 15 (Genetic Variation and Evolution, winter) and BIOL 16 (Ecology, fall and spring). Each Foundation course has a laboratory component, and students must successfully complete three of the five Foundation courses for the major. A Biology minor must successfully complete two Foundation courses.

To complete the major, students, in consultation with their faculty advisor, focus in an Area of Concentration by taking seven additional courses including two advanced courses numbered 50 and above. A student minoring in Biology must complete four additional courses. Additional prerequisites for the major include CHEM 5 and CHEM 6, and one quantitative course from among COSC 1 or 5, ENGS 20, EARS 17, BIOL 29, MATH 4, MATH/BIOL 5, and MATH 8 or above. MATH 10 (or equivalent) also satisfies the quantitative requirement. In addition, many graduate and professional schools require CHEM 51-52 for admission, so we highly recommend that students consider taking these courses while at Dartmouth.

Although non-majors can (and are encouraged to) enroll in BIOL 11 and Foundation courses, the department also offers a course intended primarily for non-majors: BIOL 2 (Human Biology, fall).

SELECTED FALL TERM COURSES (BIOL)
2. Human Biology
(does not count for major/minor credit)
A course designed to help students (biologists and non-biologists) understand the biological basis of human health and disease. The course will emphasize the fundamental aspects of biochemistry, genetics, cell and molecular biology, physiology, anatomy, reproductive biology, and structure/function of various organs as they relate to humans. Particular emphasis will be placed on specific topics in human health and disease and how these issues affect us all individually in our own health and collectively in our international society. Dist: SCI.

11. The Science of Life
Biology, like all of science, is a problem-solving endeavor. This course introduces students to a major problem in biology, and considers it from many different perspectives, viewpoints and biological levels of organization. Along the way, students are

As you explore this guide, circle seven to ten courses that interest or intrigue you. Keep your mind open and curious!
exposed to many of the major concepts in biology, from molecules to ecosystems. Each offering will address a different major problem. Dist: SCI.

Fall Topic for BIOL 11: Major Events in the History of Life and the Human Genome

Over the course of the last 4.5 billion years, life has faced a number of challenges, and in response has evolved a number of remarkable innovations. These innovations are written in DNA, and thus molecular fossils for many of the major events in the history of life can be found within our very own genomes. This course will survey the human nuclear and mitochondrial genomes, using a gene or region from a chromosome as a “ticket” to a particularly important event or process in the history of life. Dist: SCI.

12. Cell Structure and Function

BIOL 12 will provide a foundation in the fundamental mechanisms that govern the structure and function of eukaryotic cells. Topics include membrane transport, energy conversion, signal transduction, protein targeting, cell motility and the cytoskeleton, and the cell cycle. Emphasis will be placed on discussion of the experimental basis for understanding cell function. The laboratory section will provide students with hands-on experience in modern laboratory techniques including microscopy, cell fractionation, and protein purification. Dist: SLA.

14. Physiology

BIOL 14 introduces students to the complexity of organisms by studying how their different organ systems strive to maintain internal homeostasis in the face of different environmental demands. The adaptive responses of selected organisms (humans, different animals and plants) to a variety of environmental factors will be studied from the molecular, cell, tissue, organ, and systems level of organization. Some of the topics to be covered include biological control systems (hormones, neurons) and coordinated body functions (circulation, respiration, osmoregulation, digestion). All systems studied will be integrated by analyzing how different organisms adapt to living in extreme environments (deserts, high altitude) or facing environmental demands (navigation, exercise). Dist: SLA.

16. Ecology

This course examines fundamental concepts in the rapidly developing areas of ecology. These topics include the factors that limit the distributions and abundances of organisms, the effects that organisms have on ecosystems, the integration of ecosystems around the globe, and the conservation of species diversity. The class will also explore how the behavior and physiology of individual organisms shape both local and global patterns of distribution and abundance. Laboratories focus on experimental and quantitative analyses of local ecosystems, with an emphasis on field studies. Dist: SLA.

Chemistry (CHEM)

Please note that the Chemistry Department offers key local placement/credit-on-entrance exams only during Orientation. These are only open to students in their first year, so decisions regarding whether or not to take these exams need to be made at the beginning of Orientation. Because the departmental open houses may be held after the test offerings, you may wish to consult the Chemistry Department once you arrive on campus, if you have questions about the exams.

Chemistry majors and non-majors alike have outstanding opportunities at Dartmouth. The department is characterized by excellent teaching and close faculty-student relations in nationally competitive research projects. A Ph.D. program and the presence of postdoctoral research associates help to ensure a stimulating scientific atmosphere supported by modern research instruments that are accessible to undergraduates. Research in the general fields of inorganic, organic, physical, theoretical, materials, structural biology, and biological chemistry is supported by modern instrumentation, computers, and a first-rate library including computer-assisted literature searches.

All majors are welcome to attend the weekly departmental colloquium, which features speakers from other universities and from industry. Undergraduate research students attend the research seminars of their faculty mentor's research group. Graduate courses allow undergraduates to pursue specific interests in advanced topics as these develop. Chemistry faculty members are dedicated educators and the department ranks among the top in undergraduate ratings of teaching quality at Dartmouth. The department believes it has one of the best undergraduate programs in chemistry available at any college or university.

The Department of Chemistry offers two parallel introductory sequences, which are prerequisite to more advanced courses in chemistry. The normal sequence consists of Chemistry 5 and 6 (General Chemistry). Chemistry 10 is a limited enrollment honors course for those first-year students with a strong background and interest in chemistry, who may have interest in majoring in the sciences, and who have adequate mathematics preparation (credit-on-entrance for, or exemption from, Mathematics 3). Chemistry 10 is offered during the fall term, is only open to first-year students, and is the prerequisite equivalent to Chemistry 5 and 6; upon successful completion of Chemistry 10 students receive one credit-on-entrance for Chemistry 5, and one course credit for Chemistry 10. Eligibility for entrance into Chemistry 10 is discussed below. Students who plan to take general chemistry in their first year at Dartmouth and who have a credit-on-entrance for, or exemption from, Mathematics 3 are encouraged to take Chemistry 5 in the fall term. Students without a Math 3 credit-on-entrance or exemption must take this prerequisite mathematics course in the fall prior to taking Chemistry 5 in the winter.

5-6. General Chemistry (5 F, W; 6 F, S)

10. Honors First-Year General Chemistry (F)

Although there are many options for first-year students, it is important to have an early start, at least in planning, for those who wish to major in Chemistry or Biological Chemistry. Students who wish to keep open the option of majoring in Chemistry are strongly encouraged to take Chemistry 5-6 or Chemistry 10 in their first year. None of the major programs precludes off-campus activities such as Language Study Abroad. Students interested in a combined program of chemistry and engineering should plan their programs in consultation with both the undergraduate curriculum advisor at Thayer and one of the members of the Undergraduate Advising Committee of the Chemistry Department at the start of the first year. Students contemplating a major in the physical sciences, but undecided between physics and chemistry, should note that Mathematics 3 and 8, Chemistry 5-6 (or Chemistry 10), and Physics 13-14 will serve well as preparation for further study in either field.

CREDIT ON ENTRANCE AND ADVANCED PLACEMENT

Students with a score of 5 on the CEEB Advanced Placement Examination will receive a credit-on-entrance for Chemistry 5. These students will be invited to take the Chemistry 6 credit test during Orientation. Students who have been given a credit-on-entrance for Chemistry 5 may not enroll in Chemistry 5 without permission of the Chemistry Department. The training described in the CEEB Advanced Placement Program Syllabus is a satisfactory guide to the type of work that may be expected to lead to Advanced Placement at Dartmouth. Students who have a credit-on-entrance for Chemistry 5 and either a credit-on-entrance for, or an exemption from, Mathematics 3 are eligible to enroll in either Chemistry 6 or Chemistry 10 (subject to enrollment limits) in the fall term.

CREDIT ON ENTRANCE BY SPECIAL EXAMINATION

Students with a good background in chemistry, but who were unable to take the CEEB Advanced Placement Examination (for example, students who took the International Baccalaureate or British A-Level examinations), or who achieved a score lower than 5 on the CEEB Advanced Placement Examination, are strongly encouraged to take the Chemistry 5 credit exam at the beginning of Orientation. Please note that the Chemistry 5 test is offered only on this one occasion. Those students who pass this test will receive a credit-on-entrance for Chemistry 5 and be invited to take the Chemistry 6 credit test, which is scheduled later in Orientation. Students who pass the Chemistry 6 credit test will receive a credit-on-entrance for Chemistry 6. Students are strongly encouraged to prepare for these tests by reviewing their high school chemistry material and consulting the chemistry testing web-site, www.dartmouth.edu/~prep/chemistry/.

ELIGIBILITY FOR ENROLLMENT IN CHEMISTRY 10

There are two ways for first-year students to be eligible for enrollment in Chemistry 10. 1) First-year students with credit-on-entrance for Chemistry 5, either by scoring a 5 on the CEEB Advanced
Recommended Courses for First-Year Students

Placement Examination, or by passing the Chemistry 5 credit test offered at the beginning of Orientation, and who also have credit-on-entrance for, or exemption from, Mathematics 3 are eligible to enroll; 2) First-year students with credit-on-entrance for, or exemption from, Mathematics 3, but who do not have credit-on-entrance for Chemistry 5 can become eligible for enrollment in Chemistry 10 by satisfactory performance on a Chemistry 10 placement examination offered at the beginning of Orientation. Please note that enrollment is limited. All students who are admitted to the course will also receive credit-on-entrance for Chemistry 5 upon satisfactory completion of Chemistry 10.

TRANSFER CREDIT

Students who wish to receive credit-on-entrance for Dartmouth chemistry courses for college chemistry courses taken prior to matriculation at Dartmouth should see the chair of the Department of Chemistry early in the fall term.

SELECTED FALL TERM COURSES (CHEM)

3-6. General Chemistry
An introduction to the fundamental principles of chemistry, including chemical stoichiometry; the properties of gases, liquids, and solids; solutions; chemical equilibria; atomic and molecular structure; an introduction to thermodynamics; reaction kinetics; and a discussion of the chemical properties of selected elements. The laboratory work emphasizes physical-chemical measurements, quantitative analysis, and synthesis. Prerequisite for Chemistry 5: Mathematics 3. Prerequisite for Chemistry 6: Mathematics 3 and Chemistry 5. Dist: SLA.

10. Honors First-Year General Chemistry
Chemistry 10 is a general chemistry course for students with a strong background in chemistry and mathematics, and who may have an interest in majoring in the sciences. The course will cover selected general chemistry topics important for higher-level chemistry courses. These include thermodynamics, reaction kinetics, quantum mechanics, and bonding. Laboratory work will emphasize physical-chemical measurements and quantitative analysis. Prerequisite: Credit for Mathematics 3 (or equivalent), and either credit for Chemistry 5, or satisfactory performance on the Chemistry 10 local placement exam. Dist: SLA.

Chinese
(See program description under Asian Societies, Cultures, and Languages.)

Classics (CLST)
The Department of Classics offers a broad range of courses in Latin and Greek language and literature; Latin and Greek literature in English translation; Greek and Roman history, archaeology, mythology, philosophy, and religion; and Modern Greek. Designed to highlight all aspects and phases of Greek and Roman civilizations, the departmental curriculum appeals to students interested in exploring broadly the foundations of Western culture. Study of the Classics can be an ideal undergraduate liberal arts program for individuals preparing for careers in a wide variety of professions. We work closely with our students in developing their skill sets so that they graduate with highly advanced competencies in creatively analyzing and synthesizing qualitative information, using texts and artifacts to examine cultural systems and systems of thought, communicating clearly both in writing and spoken word, and collaborating effectively with others. Most of our classes are capped at 25 students or fewer, and we are committed to providing the sort of intensive faculty-student engagement for which Dartmouth is renowned.

In addition to a major program in the classical languages and literature, the department also offers majors in classical archaeology, ancient history, and classical studies, the last of which is ideal for those students who seek an area studies major in the humanities that can be completed without Greek or Latin language study.

The Classics Department offers courses under three different rubrics: Classical Studies (CLST), Ancient Greek (GRK), and Latin (LAT).

CLASSICAL STUDIES (CLST)
Classical Studies encompasses courses on Greek and Latin literature (including philosophy) in English translation (CLST 1-5); Greek and Roman history (CLST 14-15, 17-19); classical archaeology (CLST 6, 20-26); and special topics in classical literature, history, archaeology, philosophy, and religion (CLST 10-12). All Classical Studies courses are open to first-year students, without prerequisites.

The following courses are recommended for first-year students (CLST):

1. The Tragedy and Comedy of Greece and Rome (S)
2. Reason and the Good Life: Socrates to Epictetus (F)
3. The Heroic Vision: Epics of Greece and Rome (W)
4. Introduction to Classical Archaeology (F)
5. The Heroic Vision: Epics of Greece and Rome (W)
6. What Was Written: Classical Literature (F)
7. The Heroic Vision: Epics of Greece and Rome (W)
8. The Heroic Vision: Epics of Greece and Rome (W)
10. Readings in Ancient Greek Prose and Poetry (F)

LATIN (LAT)

Intermediate courses (Latin 15 or Latin 10) strengthen reading skills and develop familiarity with the variety of literary, historical, and philosophical texts written in Latin. Latin 15, which is offered every fall, is specially designed for incoming first-year students. Students may take either Latin 10 or Latin 15 or both before proceeding to more advanced offerings (Latin 20-30).

The following courses are recommended for first-year students (LAT):

1. Introductory Latin (F, W)
2. Intermediate Latin (W, S)
3. Latin 5 and Modern Greek 5
4. Latin 3
5. Greek 1
6. Greek 2
7. Greek 3
8. Greek 4
9. Greek 5
10. Greek 6

PLACEMENT IN LATIN COURSES
Placement directly into higher level Latin courses depends on your level of achievement and confidence. This is a collaborative decision between you and members of the Classics faculty that is based in part upon your scores on the SAT II Achievement Test in Latin, on the AP Latin test, or on the placement test administered to incoming first-year students by the Department of Classics at Dartmouth. Available only to first-year students during the orientation process, the Latin Placement Test is an online test consisting of 55 multiple-choice questions. Time allowed is 50 minutes. First-year students who have questions about the placement process are encouraged to contact the coordinator for Latin Placement (Professor Margaret Graver: margaret.graver@dartmouth.edu).

All members of the incoming class who have reported studying Latin in high school should automatically receive access to the Latin Placement Test on Canvas (look under “Courses”). First-year students...
who do not receive access and wish to take the test can request access by emailing Professor Graver.

In order to be placed directly into Latin 3 without taking Latin 1, you should have a score of 570-670 on the SAT II Achievement Test in Latin or a passing mark on our placement test. All first-year students who have received a placement into Latin 3 are encouraged to visit the Classics department during Orientation week for a brief diagnostic test that may make it possible to forego Latin 3 and move directly into Latin 15.

Placement into Latin 15 will also be granted to students who have scored 680 or above on the SAT II Achievement Test in Latin, who have received a score of “5” on the Latin AP test, or who performed suitably well on our placement test. An official placement into Latin 15 confers exemption from the college language requirement. First-year students who have questions about the placement process are encouraged to contact Professor Graver.

**SELECTED FALL TERM COURSES**

**CLASSICAL STUDIES (CLST)**

3. *Reason and the Good Life: Socrates to Epicurus*
   An introduction to philosophical thought in antiquity, especially that of Socrates, Epicurus, and the Stoics. We will concentrate especially on ethical questions; e.g., what kind of life is best for humans to pursue, how thoughtful persons should weigh the potentially competing claims of reason, pleasure, and emotion; and on how intellectual activity was conceived at Athens and at Rome. Readings include Aristophanes’ Clouds, Plato’s Apology and Meno, and selected writings of Epicurus, Lucretius, Cicero, Seneca, and Epicurean. Open to all classes. Dist: TMV; WCult: W.

6. *Introduction to Classical Archaeology*
   This course will familiarize students with the basic methods and principles of Classical archaeology through a survey of the principal types of sites and artifacts characteristic of Greek-Roman antiquity. Students will gain a good overview of the approaches useful in the interpretation of a wide variety of material evidence as well as problems inherent in such evidence. At the same time, through the study of a number of major sites in roughly chronological sequence, students will acquire an appreciation of the development of material culture in the Mediterranean world from prehistory to the collapse of the Roman Empire. The course thus serves both as an introduction to Greek and Roman civilization and to the particular goals of the discipline of archaeology. Dist: INT or ART; WCult: W.

11.11. *War Stories*
   This course surveys stories of deployment and return from antiquity to the present, to think about the genre of the war story, and especially the self-fashioning narratives of individuals who have witnessed the realities of war and return home. Texts include Homer, Odyssey; Remarque, The Road Back; Tim O’Brien, The Things They Carried; Kevin Powers, The Yellow Birds; Phil Klay, Redeployment. Secondary literature analyzes analytical perspectives on the war story as an historical artefact. Dist: LIT or INT; WCult: CL.

15. *Alexander the Great and the Macedonian Kings (Identical to HIST 94.04)*
   This course has two aims: (1) to establish a basic understanding of the history of Alexander the Great and of Greek-speaking peoples in the eastern Mediterranean during the fourth through first centuries BCE and (2) to explore the cultural, military, political, and economic innovations of what was a singular age of experimentation. Open to all classes. Dist: SOC or INT; WCult: W.

24. *Etruscan and Early Roman Archaeology: The Rise of Rome*
   This course begins with the archaeology of Late Neolithic and Iron Age Italy, then focuses upon the Etruscans, early Latium and the development of Republican Rome and her colonies, concluding with the death of Caesar in 44 B.C. In addition to the chronological development of the material culture of Italy, we will explore at least two important cultural topics: 1) Etruscan religion and its influence on the Roman sacro-political system; 2) the machinery of Roman government as expressed in the spaces in Rome (and other sites) that played host to political ritual: the Arx, the Forum, the Comitium, the Curia, the Tribunal and the Basilica. Dist: SOC; WCult: W.

**COGS 01. Introduction to Cognitive Science (S)**

Cognitive Science aims to understand how the mind works by using tools and insights from a variety of fields including experimental psychology, computer science, linguistics, vision science, philosophy, anthropology, behavioral economics, and neuroscience. Cognitive scientists may focus on particular cognitive faculties, such as language or memory, on specific cognitive phenomena, such as empathy, or on understanding the fundamentals of cognition quite broadly, for example in information-theoretic terms. What sets cognitive science apart from its core areas is its commitment to cross-disciplinary methodology. Students wishing to pursue work in cognitive science take a defined group of core courses and then a series of electives selected from courses taught in a variety of departments.

The following courses are recommended for first-year students (COGS):

- COGS 1. Introduction to Cognitive Science (S)
- COGS 02. PSYC 28. Cognition (S)
- COSC 01. Introduction to Programming and Computation (F, W, S)
- LING 01. Introductory Linguistics (W, S)
- PSYC 40. Introduction to Computational Neuroscience (F)

**SELECTED COURSES (COGS)**

COGS 01. *Introduction to Cognitive Science (S)*
   Cognitive Science aims to understand how the mind works by using tools and insights from a variety of fields including experimental psychology, computer science, linguistics, vision science, philosophy, anthropology, behavioral economics, and neuroscience. This course will introduce you to many of the major tools and theories from these areas as they relate to the study of the mind. We will tour mental processes such as perception, reasoning, memory, attention, imagery, language, intelligence, decision-making, and morality, and discover many strange and amazing properties of mind.

LING 01. *Introductory Linguistics*
   An introduction to the scientific description of hu-
man language. The course teaches methods of analyzing languages’ sound systems (phonology), word structure (morphology), sentence patterns (syntax), and systems of meaning (semantics and pragmatics). Some important implications of linguistics for the study of human cognition and cultural behavior will be discussed. Dist: QDS.

COSC 01. Introduction to Programming and Computation
CS 1 will teach you to design, write, and analyze code to solve computational problems from a range of disciplines. You’ll also learn to think about problems the way a computer scientist thinks – a skill that is valuable in any field. The course is suitable for students with no previous background in Computer Science, and no knowledge of mathematics beyond high-school algebra. DIST: TLA

PSYC 40. Introduction to Computational Neuroscience
The mind is what the brain does, and the brain is becoming understood computationally. Computational neuroscience has as its twin goals the scientific and engineering tasks of understanding of how brain computes mind and using that understanding to characterize and reconstruct these computations. Scientific understanding of the brain will confer the ability not only to describe and characterize the mind, but to modify it, enhance it, diagnose and treat its illnesses, and, eventually, to imitate its operation. Note prerequisite: PSYC 1, PSYC 6, COSC 1, or ENGS 20.

Comparative Literature (COLT)
Comparative Literature is a challenging interdisciplinary program that gathers the best faculty from across campus in promoting the study of literatures in different languages as well as the relationship between literature and other spheres of cultural production. It also embraces broader inquiry into the relationship between literature and other disciplines and practices, such as the visual and performing arts, philosophy, history, politics, religion, and the sciences. The program provides students with ample opportunity to study literature and culture from a wide array of critical perspectives. Among these are rhetoric and poetics, translation and reception, film theory and media studies, colonial and postcolonial studies, theories of ethnic and national identities, gender and queer theory, and psychoanalysis.

Comparative Literature majors are expected to develop competence in at least one language other than their native language, and to work with original texts in more than one language. Students devise and pursue a rigorous program of study tailored to their particular interests and intellectual strengths in close consultation with one or more faculty mentors.

The following courses are recommended for first-year students (COLT):
1. Read the World (F)
7.04. Haunting Memories: The Holocaust and its Representations (S)
7.09. Colonial and Post Colonial Dialogues (S)
10.16. Flashes of Recognition in Modernist Literature (F)
10.18. Revolutionary Genres (W)
10.20. Coming to America (S)
19. Translation: Theory and Practice (F, W)
39.01. Memoirs and the Work They Do (S)
40.01. History of the Book (F)
40.05. Materials Realities: Material Matters: A Brief History of Paper and Other Writing Surfaces (W)
42.01. Prada, Chanel, Ferrar: History and Literature (W)
45. The Quest of Utopia (F)
49.06. Multilingualism and its others (W)
51.01. Masterpieces of Literature from Africa (F)
53.04. Rogues, Riddlers, Lovers, and Liars: Love and Death in the Mediterranean (S)
57.05. Migration Stories (S)
57.08. Humanities and Human Rights (S)
60.01. Literature and Music (S)
62.03. Zombies, Cyborgs and Clones in Dystopian Fiction and Film (F)
70.03. European Jewish Intellectuals (F)

SELECTED FALL TERM COURSES (COLT)

1. Read the World
Do you know how to read? Faces. Words. Pictures. Bodies. Games. Books. People. What are you really doing when you read the world? This course teaches comparative methods designed to confront the (mis)understandings and (mis)translations that constitute reading across the world’s languages, locations, cultures, historical periods, and expressive forms. Classwork consists of hands-on exercises that engage ancient and modern myths and materials drawn from various media: text, movies, video games, anime, and digital arts. Biron. Dist: LIT or INT; WCult: CI.

10.16. Flashes of Recognition in Modernist Literature
Modernist literature is full of sudden moments of insight that transform the way the world is perceived. Such literary epiphanies allow writers to explore the subjective dimensions of consciousness and experiment with new modes of storytelling. The course will explore the question of how to interpret flashes of recognition and consider whether language can adequately represent them. Readings of works by Chekhov, Joyce, Proust, Woolf, Musil, Yeats, Rilke, Kafka, and Beckett. Dist: LIT; WCult: W.

19.01. Translation Theory and Practice
Translation is both a basic and highly complicated aspect of our engagement with literature. We often take it for granted; yet the idea of meanings “lost in translation” is commonplace. In this course we work intensively on the craft of translation while exploring its practical, cultural and philosophical implications through readings in theoretical and literary texts. All students will complete a variety of translation exercises, and a substantial final project, in their chosen language. Dist: INT or LIT; WCult: W.

40.01. History of the Book
This course examines the book as a material and cultural object. We’ll consider various practical and theoretical models for understanding the book form and investigating the materials, technologies, institutions, and practices of its production, dissemination, and reception. We’ll focus primarily on the printed book in Western Europe and North America, but we’ll also discuss the emergence of the codex (book), medieval manuscript books, twentieth and twenty-first century artist’s books and the challenges posed by digitality to the book form. The readings for the course will be balanced by frequent use of exemplars drawn from Rauner Library and practical experience setting type in the Book Arts workshop. Dist: LIT; WCult: W.

45. The Quest of Utopia
Thomas More’s Utopia was long considered the ultimate paradigm of the kind of vision that
70.03. European Jewish Intellectuals

The course will examine the role of the Jewish intellectual in twentieth-century Europe. We shall focus on several paradigmatic figures (Arendt, Benjamin, Adorno, Levinas, Derrida) who confront the redefinition of politics and civil society in modern times. Some attempt to deal with these changes through a critical reflection on the concepts of democracy and ethics and on how justice can be practiced either within or outside of the geographical and spiritual boundaries of the modern nation state. We shall examine how Jewish self-consciousness and a deep attachment to biblical tradition enables these intellectuals to reconcile ethical imperative with political reality. Particular attention will be paid to topics such as the challenges of Eurocentric Christian humanism and universalism to Jewish assimilation; the promises of totalitarianism, Marxism and messianism; the politics of biblical exegesis; history and Jewish mysticism; Zionism, anti-Zionism and the Arab-Israeli conflict. Dist: INT or LIT; WCult: CI

50.01. Masterpieces of Literature from Africa

This course is designed to provide students with a specific and global view of the diversity of literatures from the African continent. We will read texts written in English or translated from French, Portuguese, Arabic and African languages. Through novels, short stories, poetry, and drama, we will explore such topics as the colonial encounter, the conflict between tradition and modernity, the negotiation of African identities, post-independence disillusion, gender issues, apartheid and post-apartheid. In discussing this variety of literatures from a comparative context, we will assess the similarities and the differences apparent in the cultures and historical contexts from which they emerge. Readings include Chinua Achebe’s Things Fall Apart, Naguib Mahfouz’s Miday Alley, Calixthe Beyala’s The Sun Hath Looked Upon Me, Camara Laye’s The African Child, and Luandino Vieira’s Luanda. Coly: Dist: INT or LIT; WCult: NW.

62.03. Zombies, Cyborgs, and Clones in Dystopian Fiction and Film

From the zombie apocalypse to fears of killer robots and technology run amok, current popular culture is fascinated by end-of-the-world nightmare scenarios. Classic dystopian novels like Orwell’s 1984 and Lewis’s It Can’t Happen Here have recently topped bestseller lists, while shows like The Walking Dead dominate the television ratings. Why are we obsessed with apocalyptic and dystopian scenarios? How might this obsession be related to politics, technology, and the media we both use and consume? Dist: INT or LIT.

64.03. War Stories

This course surveys stories of deployment and return from antiquity to the present, to think about the genre of the war story, and especially the self-fashioning narratives of individuals who have witnessed the realities of war and return home. Texts include Homer, Odyssey; Remarque, The Road Back; Tim O’Brien, The Things They Carried; Kevin Powers, The Yellow Birds; Phil Klay, Redeployment. Secondary literature illustrates analytical perspectives on the war story as an historical artefact. Dist: INT or LIT; WCult: CI

ADVANCED PLACEMENT:

A student who receives a 4 or 5 on the Computer Science Advanced Placement examination receives placement into CS 10 and CS 30. A student may instead take a departmental computer science exam (C) to determine if he or she will receive placement into CS 10 and CS 30.

TRANSFER CREDIT

The Department of Computer Science does not give transfer credit for courses taken at other institutions before matriculation at Dartmouth. Students who feel that they know the material in CS 1 can be placed out of CS 1 by taking the local placement exam as described above. Students who feel that they know the material in a higher-level computer science course should see the computer science undergraduate advisor during Orientation to arrange to take an examination on the material.

SELECTED FALL TERM COURSES (COSC)

1. Introduction to Programming and Computation

This course introduces computational concepts that are fundamental to computer science and are useful for the sciences, social sciences, engineering, and digital arts. Students will write their own interactive programs to analyze data, process text, draw graphics, manipulate images, and simulate physical systems. Problem decomposition, program efficiency, and good programming style are emphasized throughout the course. No prior programming experience is assumed. Dist: TLA.

10. Problem Solving via Object-Oriented Programming

Motivated by problems that arise in a variety of disciplines, this course examines concepts and develops skills in solving computational problems. Topics covered include abstraction (how to hide details), modularity (how to decompose problems), data structures (how to efficiently organize data), and algorithms (procedures for solving problems). Laboratory assignments are implemented using object-oriented programming techniques. Prerequisite: Computer Science 1, Engineering Sciences 20, or placement through the Advanced Placement exam or the local placement exam. Dist: TLA.

11. Foundations of Applied Computer Science

This course introduces core computational and mathematical techniques for data analysis and physical modeling, foundational to applications including computational biology, computer vision, graphics, machine learning, and robotics. The approaches covered include modeling and optimizing both linear and nonlinear systems, representing and computing with uncertainty, analyzing multi-dimensional data, and sampling from complex domains. The techniques are both grounded in mathematical principles and practically applied to problems from a broad range of areas. Prerequisite: Computer Science 1, Mat 3. Dist: QDS.

22. 3D Digital Modeling

This projects-based lab course teaches the principles and practices of 3D modeling. Lectures focus on principles of modeling, materials, shading, and lighting. Students create a fully rigged character model while learning their way around a state-of-
Recommended Courses for First-Year Students

Earth Sciences (EARS)
Earth Science is a field-based, interdisciplinary science that uses the principles of chemistry, physics, biology, and mathematics to (1) understand the origins and evolution of natural features such as mountains, rocks, lakes, air, oceans, weather, flora, and fauna; (2) understand the scientific basis of important environmental issues such as surface and groundwater contamination, global climate change, and the interactions of life, including its origins, with earth processes; and (3) assess, find, and extract natural resources such as groundwater, petroleum, and ores.

The core of the Earth Sciences degree is our off-campus field program, the Stretch, usually taken during the fall term of the junior year. The Stretch is made up of a series of segments, each taught by a different professor in a different location. Topics covered include geologic structures and landforms, river and lake processes, volcanism, geochemistry of environmentally fragile ecosystems, glacial processes, and the geological origins of western North America. These segments currently take place in the Canadian Rockies, Wyoming, Montana, Utah, Nevada, California, and Arizona.

There are two majors in earth sciences: one in environmental earth sciences and one in earth sciences. The prerequisites for the two majors are the same, but the courses recommended for the majors differ slightly. Students interested in modified majors, minors, or in interdisciplinary studies such as geophysics, geochemistry, oceanography, or environmental sciences, can shape their course of study according to their interests, and are encouraged to consult the Earth Sciences chair or undergraduate advisor.

Prerequisites for the earth sciences or environmental earth sciences major include one of the introductory courses (Earth Sciences 1-9 exclusive of 7), Chemistry 5 (or 10), and any one of the following taken at Dartmouth: Math 3, 8, 9, 11, 12, 13, 14, 23, or 46. Earth Sciences 40, offered during the summer term, is a prerequisite for the off-campus field program in earth sciences, which is required for the major.

These fall term courses are recommended for first-year students (EARS).

### SELECTED FALL TERM COURSES (EARS)

1. **How the Earth Works**
   
   This course explores the making of our planet — from the big bang to the subsequent formation and evolution of the Earth. We investigate how earthquakes, volcanic eruptions, and global climate change are byproducts of our planet’s ceaseless activity and see that these natural forces are essential for creating the conditions necessary for life in all its diversity. We will learn how to decode Earth’s dynamic history by reading the record preserved in rocks, oceans, and glaciers. We will also see that life is not only at the mercy of our planet’s natural forces, but since its inception has been an agent of environmental change as well, altering the Earth’s land, water, and air faster than many geologic processes. Dist: SLA.

2. **Environmental Change**
   
   This course investigates the science of natural and human induced environmental change on a global scale. The Earth has never existed in a pristine balanced state, and an understanding of pre-industrial changes in the Earth’s environment provides important information that we can use to interpret current environmental change. Topics that will be discussed include: the evolution of the atmosphere, global temperature variation, sea level change, atmospheric trace gases and global warming, stratospheric ozone, acid rain and tropospheric ozone, human migration and landscape development, and global catastrophes. Dist: SCI.

3. **Environmental Geology**
   
   This course takes an interdisciplinary approach toward understanding the Earth’s present and past environments as systems controlled by natural processes and impacted by human actions. Environmental issues, such as global climate change, acid rain, ozone depletion, and water resources and pollution, are discussed in this context. In the process of developing this understanding, students will gain skills in collecting, interpreting, and reporting scientific data. This course does not emphasize environmental policies, but instead the scientific knowledge and arguments behind them. However, case studies will allow students to gain appreciation of the complexity of scientific, social, cultural, and political interactions surrounding local and global environmental issues and sustainability. Dist: TLA.

4. **Economics (ECON)**
   
   Economics is the study of how societies organize themselves to produce and distribute goods and services — from bread to iPads, from housing to health care. The world is constantly confronted with important public policy issues that are essentially economic in character. Economic analysis provides a coherent and principled framework for examining and understanding the tradeoffs involved in attempting to solve important social problems. Individuals who are not familiar with economics are at a serious disadvantage in the public debate over questions concerning government spending and social insurance, international trade policy, corporate governance and the stock market, and a host of other issues.

   The starting point for the Economics major is Economics 1. It is a prerequisite for every other class in the major. The other prerequisites for the major are Economics 10, Introduction to Statistical Methods and Econ 3, Introduction to Calculus. Students who have not satisfied the Math 3 requirement through their high school coursework should enroll in Math 3 in the fall or winter of their first year.

### ADVANCED PLACEMENT

Students will receive placement out of Economics 1 (Microeconomics) if they score 5 on the Microeconomics Advanced Placement Exam, 6 or higher on the Higher Level International Baccalaureate exam, or an A in British A-Level Economics. Students who receive placement out of Math 10 via the AP Statistics exam are also exempt from taking Economics 10.

### NON MAJOR COURSES

The majority of courses offered by the economics department can be used as part of the economics major. We offer one course, Econ 2, designed for non-majors. This is a general survey course for students who have had no previous college-level economics and who do not plan to take further economics courses.

### MAJOR COURSES

If you have an exemption from Econ 1 you can take any class that has only Econ 1 as a prerequisite. Many students take Econ 10 right after Econ 1 to complete the economics prerequisites. Economics 21 and 22 are logical next choices for potential majors, but students are welcome to take any course that looks interesting to them as long as they have the prerequisites. The following courses are suitable for first year students. The required prerequisites are listed after each course. Unless otherwise noted, all courses are offered in Fall, Winter, and Spring Terms.

The following courses are recommended for first year students (ECON):

1. The Price System
2. Economics Principals and Policies (ECON 2)
3. Introduction to Statistical Methods (ECON 1, Math 3)
4. Econometrics (ECON 1, Math 3)
5. Microeconomics (ECON 1, Math 3)
6. Macroeconomics (ECON 1, Math 3)
7. Development Economics (ECON 1, 10)
8. Competition and Strategy (ECON 1, Math 3) (W)
9. Financial Intermediaries and Markets (ECON 1)
10. Labor Economics (ECON 1, Fall Only) (W)
11. Urban and Land Use Economics (ECON 1) (S)
12. International Trade (ECON 1)
13. Health Economics and Policy (ECON 1, 10) (W)
14. Social Entrepreneurship (ECON 1, 10) (W)
15. SELECTED FALL TERM COURSES (ECON)

01. The Price System: Analysis, Problems and Policies

Emphasis will be placed on problems and policies of current interest as they relate to resource use and the distribution of income and output. Students will receive an introduction to the theory of supply and demand in both product and factor markets in order to examine selected topics drawn from such
areas as industrial organization and antitrust policy, labor economics, international trade, economic development, agriculture, urban problems, poverty and discrimination, public sector economics, and environmental problems. Dist: SOC.

02. Economic Principles and Policies
This is a general survey course for students who have had no previous college-level economics and who do not plan to take further economics courses. It is divided between microeconomic concepts — supply and demand, labor and capital markets, tax incidence, comparative advantage, international trade, and benefit-cost analysis — and macroeconomic issues, such as economic growth, unemployment, inflation, national income and product accounting, the banking system, and monetary and fiscal policy. Applications to current policy issues will be emphasized throughout.

The course has “negative” prerequisites: Students who have previously taken Economics 1 or who have been exempted from Economics 1 at matriculation may not enroll in Economics 2. Completion of Economics 2 does not, however, preclude subsequent enrollment in Economics 1. Dist: SOC.

10. Introduction to Statistical Methods
This course introduces the student to the basic concepts and methods of statistics. It covers descriptive statistics and inference (estimation and hypothesis testing) for a single variable and for two variables. The probability theory required for these topics will be developed. Dist: QDS.

21. Microeconomics
This course is a study of the pricing and allocation process in the private economy. Topics include the theories of demand and production, and the determination of prices and quantities for commodities and factors of production in competitive and noncompetitive markets. Applications of the theory and its implications for empirical analysis are also considered. Dist: SOC.

22. Macroeconomics
This course is concerned with the behavior of the economy as a whole, particularly fluctuations in economic activity. General equilibrium models are developed to analyze the determinants of GNP, unemployment, the rate of inflation, and the growth of output. The micro foundations of macro aggregates are developed, with special emphasis on the role of expectations. The analytic tools are used to evaluate monetary and fiscal policies and to understand current macroeconomic controversies. Prerequisites: Mathematics 3 and Economics 1. Dist: SOC.

26. The Economics of Financial Intermediaries and Markets
This course examines the nature and function of financial intermediaries (e.g., banks, mutual funds, and insurance companies) and of securities markets (e.g., the money and capital markets and the market for derivatives). It analyzes liquidity and risk management and studies the efficiency, stability, and regulation of the financial system. Dist: SOC.

27. Labor Economics
This course studies the economic behavior of employers and employees as they interact in the labor market. The class will move beyond the basics of labor supply and demand to cover such topics as human capital investment, the structure and determinants of financial compensation and benefits packages, contract negotiations and arbitration. Additionally, since many of the pressing problems facing the United States are labor market issues, this course will provide a basis for better understanding of nationally-debated issues such as reforms of the welfare system, the income tax system, immigration policy, and affirmative action programs. Dist: SOC.

36. Urban and Land Use Economics
This course is about the location of economic activities. The central focus is on urban areas and attendant problems in public economics, but some attention is given to agricultural, natural resource, and environmental issues. Topics include housing markets, transportation, local government structure, property taxes, resource depletion, and zoning and land use controls. Dist: SOC.

39. International Trade
This course deals with the causes and consequences of international trade and factor movements. Topics covered include theories of why nations trade, the consequences of trade for economic welfare and the distribution of income, the determinants of trade patterns, the tariff and other forms of commercial policy, trade policies of selected countries, and the formation of the multinational corporation. Dist: SOC. or INT.

71. Health Economics and Policy
The goals of the course are: 1) to understand the economic forces that have created the current challenges in US healthcare; 2) to develop skills that enable you to determine what types of information, data, and analyses are needed to analyze the economics of health policies designed to expand coverage, improve quality, and contain costs; and 3) through in-class exercises and a project, to perform and present economic analysis of current topics relevant for state and federal health system reform.

77. Social Entrepreneurship
This course provides an introduction to the theory and practice of social entrepreneurship, defined as the process of finding innovative, sustainable solutions to social problems, particularly those related to poverty. Students will learn about the nature and causes of poverty, both domestically and internationally, and about the role that social entrepreneurs play in addressing poverty. The course culminates with teams of students developing business models for their own social entrepreneurship ventures. Dist: SOC.

Education (EDUC)
For over one hundred years, the Department of Education has been an integral part of Dartmouth’s liberal arts tradition. In both courses and research, students explore learning, development, and education at multiple levels of analysis. An interdisciplinary approach allows students to build a multifaceted and deep understanding of the complexities of the developing child, processes of learning, and the art and science of education; an understanding based on critical analyses of theory, practice, policy, and empirical data.

Most of our classes are open to all students, although we recommend taking EDUC 01 to start (see http://educ.dartmouth.edu/undergrad/curriculum/courses). The department offers a minor in Education. The minor is designed to help students explore how children grow, think, reason, learn a variety of skills and knowledge, and conceptualize their social and emotional worlds.

The following courses are recommended for first-year students (EDUC):
1. Introduction to Education: Learning, Development, and Teaching (F, S)
15. History and Theory of Human Development and Learning (F)
16. Educational Psychology (F)
17. What Works in Education (W)
27. The Impact of Poverty on Education (W)
50. The Reading Brain (S)
56. STEM and Education (W)
60. Learning and Education Across Cultures (F)
62. Adolescent Development and Education (F)
64. Development in the Exceptional Child (W)

SELECTED FALL TERM COURSES (EDUC)
1. Introduction to Education: Learning, Development, and Teaching
Education, development, and learning are inextricably intertwined. In this course, we will explore how pre-Kindergarten through high school education is informed by scientific evidence across multiple domains. Topics to be explored may
include the educational system in America; the research-to-practice gap and educational misconceptions; social, emotional, and motivational development in school context; memory, strategies, metacognition, and assessment as related to learning and learning and teaching in early math, science, and reading. Dist: SOC.

15. History and Theory of Human Development and Learning

In this course we will learn about the major theories that have influenced the study of human development throughout history. Readings and discussions will provide an in-depth historical lens onto the major conceptual approaches to the study of human development and learning including Freud, Piaget, Vygotsky, Behaviorism, Information Processing, Nativism, and Mind, Brain and Education. The course aims to explain the historical origins of current trends in the study of human development, learning and education. Dist: SOC.

16. Educational Psychology

In this course we will explore the multitude of ways that people learn, the effects of different types of teaching strategies on learning, and the impact of individual differences on learning. We will also explore assessment, creativity and problem solving, as well as cultural and motivational influences on learning across diverse educational situations. Underlying the course will be an account of the way the human mind works, changes, and adapts in different settings. This includes the home, the school, the university, and any context in which explicit or implicit education takes place. Dist: SOC.

Engineering Sciences (ENGS)

Engineers design devices, processes and systems that help to meet human needs, with due regard for the environment, ethics and economics. The engineering sciences department is dedicated to educating well-rounded engineers within the context of liberal arts. We regard the ability to think quantitatively as a valuable part of a liberal arts education and thus provide a variety of ways for students to increase their understanding of the relationship between technology and society. The engineering sciences major followed by the Thayer School's Bachelor of Engineering (B.E.) program is the usual route taken into the engineering profession. The major is also excellent preparation for medicine, law, business or other careers that require an ability in quantitative analysis, design and problem solving. The major may be modified with other sciences or with studio art, economics, public policy or environmental studies. In addition to the straight major and to the modifications, we offer two other majors: Engineering Physics for students interested in applied physics or more fundamental aspects of engineering science, and Biomedical Engineering for students who wish to apply to medical school after Dartmouth. A new minor in Human Centered Design combines courses in engineering, computer science and social sciences. More information about all these programs is available at the Thayer School website, Bachelor of Arts (A.B.) | Thayer School of Engineering at Dartmouth.

The engineering sciences department offers a number of courses that serve in satisfaction of the TAS distributive requirement and/or are complementary to studies in other disciplines. For a list of these and other courses, consult the Thayer School website, Undergraduate Courses | Thayer School of Engineering at Dartmouth.

Most students who intend to study engineering begin by taking courses in mathematics and physics in the first year. One of the introductory courses ENGS 20 or 21 may be taken in the spring term (CS 1 and 10 may be taken instead of ENGS 20). However, there are many routes into the major and paths through the major, and prospective students should consult with an engineering professor to work out a course of study appropriate to their interests and preparation.

The Bachelor of Engineering degree usually requires up to an additional year of study beyond the Bachelor of Arts (A.B.). Financial aid for the additional terms is available from Thayer School. Some students with advanced standing are able to complete both the A.B. and B.E. degrees in as few as 12 terms. More information and sample programs are available at the Thayer School website, B.E. Degree Requirements | Thayer School of Engineering at Dartmouth.

English (ENGL) and Creative Writing (CRWT)

The Dartmouth College Department of English and Creative Writing offers courses ranging across a thousand years of cultural history, from Beowulf to The Wire. Students in English work with some of the leading scholars and creative writers in the country. They study canonical figures such as William Shakespeare, Jane Austen, and Ernest Hemingway and contemporary writers such as Zadie Smith, David Foster Wallace, and Alison Bechdel. They engage with graphic novels, video games, and television drama, and they sometimes even make their own books in Dartmouth’s unique Book Arts Workshop.

The English Department is also home to Dartmouth’s Creative Writing Program. Students can practice the crafts of fiction, poetry, creative nonfiction, and more with our faculty of renowned writers. The Writing Workshops are small, intimate, and intense—ideal both for aspiring writers and for those who want to complement their critical studies with creative investigation. All English Department courses pay close attention to the language and structure of texts, the production of original creative and/or scholarly work, the development of critical vocabularies and theoretical models, and the cultural circumstances of textual production.

The following English courses are recommended for first-year students:

ENGL 1. Literary History I: Literature Up to the Mid-17th Century
ENGL 2. Literary History II: Mid 17th to the 19th Century
ENGL 3. Literary History III: Literature in the 20th and 21st Centuries
ENGL 11. Chaucer
ENGL 15. Shakespeare
ENGL 22. the Rise of the Novel
ENGL 23. Romantic Literature
ENGL 29. American Fiction to 1900
ENGL 44. Introduction to Digital Studies

The following Creative Writing courses are recommended for first-year students:

CRWT 10. Reading and Writing Fiction
CRWT 11. Reading and Writing Creative Nonfiction
CRWT 12. Reading and Writing Poetry

For a complete listing of English department course offerings in fall term, please consult the department website at http://english.dartmouth.edu/.

The department encourages first-year students to talk to individual professors about courses they would like to take.

SELECTED FALL TERM COURSES

ENGL 1. Literary History I: Literature up to the mid-Seventeenth Century.
An overview of English literature from the Anglo-Saxon period through the Middle Ages and into the seventeenth century.

ENGL 15. Shakespeare: Poet and Playwright
A formal critical study of Shakespeare's verse in six generic modes: comedy, history, tragedy, romance, epilyn, and sonnet.

ENGL 23. Romantic Literature: Aesthetics and Ideology from the French Revolution to Frankenstein
An introduction to the Romantic literature produced in Britain in the three decades between the French Revolution in 1789 and the publication of Mary Shelley's Frankenstein in 1818.

ENGL 29. American Fiction to 1900
A survey of the first century of U.S. fiction, this course focuses on historical contexts as well as social and material conditions of the production of narrative as cultural myth.

ENGL 44. Introduction to Digital Studies
This course introduces the basic ideas, questions, and objects of new media studies, offering accounts of the history, philosophy, and aesthetics of new media, the operation of digital technologies, and the cultural repercussions of new media.

ENGL 52.17. Victorian Children's Literature

ENGL 55.11. Hamilton: The Revolution as a Work of Art.
In this course, we will develop frames for thinking analytically about Hamilton's artistic engagement with class, gender and ethnicity in the historic past as well as our own moment.

Environmental Studies (ENVS)
Environmental Studies offers interdisciplinary courses that are of interest to students regardless of their major field of study. Our classes examine the biophysical and social issues behind important environmental problems such as global change, air pollution, loss of biodiversity, international environmental policy, and energy resources. Learning about the complexity of these problems is complemented by exploring possible solutions to these problems. Courses are offered on a diversity of topics such as ecological economics, environmental writing, environmental health, biogeochemistry of natural and human-disturbed ecosystems, and ecological agriculture. Students may major in environmental studies or may use environmental studies to modify other majors or complete a minor in either environmental studies, sustainability, or environmental science. A foreign study program is offered in Southern Africa. The program has prerequisites and interested students should inquire by the beginning of the sophomore year, or earlier.

CREDIT ON ENTRANCE AND ADVANCED PLACEMENT
Students who have scored a 4 or 5 on the Environmental Science CEEB Advanced Placement Examination will receive credit on entrance for Environmental Studies 2. Credit on entrance appears on the Dartmouth transcript and does not count towards the 35 credits required to graduate.

The following courses are recommended for first-year students (ENVS):
2. Introduction to Environmental Science (W)
3. Environment and Society: Towards Sustainability? (F)
11. Humans and Nature in America (W)
12. Energy and the Environment (S)
15. Environmental Issues of the Earth's Cold Regions (S)
17. Marine Policy (F)
18. Native Peoples in a Changing Global Environment (F)

SELECTED FALL TERM COURSES (ENVS)
3. Environment and Society:
Towards Sustainability?
What does a sustainable relationship between humans and the environment look like? The co-evolution of society and the environment involves complex and dynamic interactions whose consequences are hard (or impossible) to predict because causes and effects are often far apart in time and space. This course examines interactions between environmental and social processes from the perspective of sustainability. This course explores the historical roots of unsustainability and the underlying mental models contributing to this state of affairs; the idea that resilience is the key to a sustainable relationship between society and environment; how institutions and power dynamics influence sustainability; and possible actions to facilitate transitions to sustainability while being mindful of paradigms and ethics. Dist: SOC.

17. Marine Policy
People use the oceans for transportation, recreation, food, mineral wealth, waste disposal, military defense, and many other important things. This course explores the most significant human-ocean interactions known today from two perspectives: science and policy. From the scientific literature, students will learn about issues ranging from the physical effects of sea level rise to the biological impacts of pollution events like the recent BP oil spill to the economic repercussions of overfishing. For each of the problems that are revealed by science, we will also critically evaluate relevant policy solutions to understand how institutional design can (or can't) enhance human interactions with the oceans. Dist: SOC.

18. Native Peoples in a Changing Global Environment
This course is about indigenous peoples’ relationship to land and natural resources and the threats that rapid environmental changes, such as climate change and invasive species, pose to indigenous societies. What is at stake when significant changes, like the loss of a cultural keystone species, occur on indigenous homelands? In NAS 18 (ENVS 18), we attempt to understand the societal impacts of rapid environmental change from multiple perspectives including those of indigenous and non-indigenous actors. Dist: TMV; World Cult: NW.

Film and Media Studies (FS)
The Department of Film and Media Studies has established a notable reputation for scholarship and production across various moving picture media. We offer a range of courses in the history and criticism of film, television and digital media as well as in screen-writing, filmmaking, videomaking, new media production (including computer games), and animation.

The following 2018-2019 courses are open to first-year students: All of the courses we teach except FS 32, 34, 38, 40 and 50. Prerequisite courses especially recommended for first-year students interested in majoring in Film and Media Studies include:
1. Introduction to Film (F)
3. Introduction to Digital Arts and Culture (X)
20. Film History I (Silent to Sound) (F)

SELECTED FALL TERM COURSES (FS)
1. Introduction to Film
Examines all the processes which go into the creation of a film from its inception to distribution, focusing on in-depth analysis of different kinds of films and the key technical and critical concepts used in understanding them. Experts (writers, directors, cinematographers, distributors) may talk on areas of expertise. Prerequisite to the major in Film and Media Studies. Dist: ART; WCult: W.

3. Introduction to Digital Arts and Culture
Digital technology is a key component of culture. Looking at popular media, science fiction, computer games, and artists’ projects, students will learn important approaches to digital culture including: the history of the computer as a medium; the conceptual history of interactivity; the development of film, design, animation, and hypermedia; the history of artificial reality; and how visions of the future may change our sense of identity and what constitutes our physical bodies.
This course serves as an alternate for FS 1 as a prerequisite to the major in Film and Media Studies. Dist: ART; WCult: W.

20. Film History I (Silent to Sound)
Detailed history of film from its origins to early sound films. Among the major topics will be: the rise of the feature film; the rise of the studio and star system; the tradition of silent comedy; European movements and their influence (German Expressionism, Russian Constructivism, and French Impressionism); the coming of sound. Prerequisite
Recommended Courses for First-Year Students

to the major in Film and Media Studies. Dist: ART; WCult: W.

French and Italian (FREN) (ITAL)
Renowned for its innovative, successful teaching of French and Italian language, literature and culture, the Department of French and Italian is a strong presence in the Humanities that is committed to engaging students throughout their careers.

Some of the department’s students choose to major in language and literature; many others connect their study of Italian or French with courses in government, economics, history or the arts. Each student shares the excitement that comes from being part of a program that is designed to meet individual needs, talents, and aspirations.

STUDY PROGRAMS IN FRANCE
The Department runs term-long programs in France every year in Lyon (LSA/LSA+) in the winter, Toulouse (LSA/LSA+) in the spring, and Paris (FSP) in Fall, Winter and Spring. The prerequisites for the Language Study Abroad (LSA) is French 2 or French 11, with a grade of B or better; the prerequisite for the Advanced Language Study Abroad (LSA+) is French 3, with a grade of B or better; the prerequisites for the Paris Foreign Study Program (FSP) are French 8 and French 10 or satisfactory completion of the LSA+ program in the term immediately preceding the Foreign Study term.

STUDY PROGRAMS IN ITALY
The Department runs term-long programs in Rome every year: the Full Immersion Rome Experience (F.I.R.E.) in the summer, the LSA/LSA+ in Fall and the LSA+ in Winter. There are no prerequisites for F.I.R.E.: The prerequisite for the LSA is Italian 2 or Italian 11 with a grade of B or better, and the prerequisite for the LSA+ is Italian 3 with a grade of B or better.

FRENCH (FREN)
Either a series of three, one-term elementary courses (French 1, 2, and 3) or two, one-term courses (French 11, an accelerated course combining French 1 and 2, followed by French 3), gives students the foundation they need in the language and allows them to satisfy Dartmouth’s language requirement. They are then able to move on to the intermediate courses, French 8 (Exploiting French Culture and Language), followed by French 10 (Introduction to French Literature).

COURSE PLACEMENT AND EXEMPTION
The scores of the SAT II Subject Test and the CEEB Advanced Placement Examination will be used as follows:

Course placement:
1. A student who receives a score of 0-530 on the SAT II Subject Test will be placed in French 1.
2. A student who receives a score of 540-600 on the SAT II Subject Test will be placed in French 2.
3. A student who receives a score of 610-710 on the SAT II Subject Test or a score of 4 on the AP will be placed in French 3.

Exemption from the Language Requirement
(1, 2, 3):
The following scores/grades will exempt students from the Language Requirement:
1. A score of 5 on the CEEB Advanced Placement Examination.
2. A score of 720 or higher on the SAT II Subject Test.
3. A grade of 6 or 7 on the Higher Level International Baccalaureate (IB)
4. A grade of “A” on the British A-Level

EXEMPTION FROM FRENCH 8: DARTMOUTH’S ADVANCED PROFICIENCY EXAM
An entering student who has been exempted from French 1, 2, and 3 is eligible to take the Advanced Proficiency Exam (APE) during New Student Orientation in September. A score of 90 percent or more earns exemption from French 8.

Note: French 8 (or exemption) and French 10 (see below) are prerequisites for participation in our Paris program; they are also required courses for all students who major or minor in French.

TRANSFER CREDIT
Transfer credit is not granted for French courses taken at other colleges and universities before matriculation at Dartmouth. The Department Chair may authorize exceptions for upper-level French courses for students transferring from another school after their first year. Transfer credit is never granted for French 1, 2 or 3.

RECOMMENDED FRENCH LANGUAGE SEQUENCE
1. French I followed by French 2

Introductory French I (F, W, S)
The French language in all skill areas: classwork emphasizes listening, speaking, reading and writing. Students learn the basics of French grammar and acquire a broader understanding of French and Francophone culture through materials that enable them to use the language in context.

Introductory French II (F, W, S)
Builds on skills acquired in French I. Students deepen their understanding and further their practice of French grammar. A broad variety of assignments improve proficiency in listening, speaking, reading and writing and enhance understanding of French and Francophone culture.

OR
2. French II Intensive French
(an accelerated course that combines French 1 and 2 in one term) (F)
This course offers an exciting and fast-paced atmosphere in which to learn French. This 1-credit course, which combines French 1 and 2 in one term, is designed for students who have studied French for one to three years in high school, or those who have been exposed to French through family ties or have spent some time in a Francoophone environment. It is also suitable for students with little or no knowledge of the French language, but who have a strong background in another Romance language (i.e. Spanish, Italian, Romanian, Portuguese, Catalan, and also Latin).

3. Introductory French III (F, W, S)
Given on campus as the final course in the required sequence, or in France as part of the LSA (Language Study Abroad) curriculum in Lyon and Toulouse, this course refines spoken and written language skills by reinforcing grammatical structures and expanding vocabulary. Exposure to a broad spectrum of language styles ranging from colloquial to formal and use of multiple French language sources such as literature, advertising, comics and television. Frequent oral and written assignments with a focus on culture.

8. Exploring French Culture and Language (F, W, S)
Practice in the active use of the language combined with analysis of key aspects of French society. Students write papers and participate in discussions based on books, articles, and films emphasizing social and historical concepts. Prerequisite: French 3 or equivalent preparation. Dist: SOC; WCult: W.

10. Introduction to French Literature (F, W, S)
Different variations of the course are offered in each term, but all deal in major figures, themes, or issues of French and Francophone writing. Students learn techniques of critical reading and interpretation. Prerequisite: French 8 (or exemption). Dist: LIT; WCult: W.

ITALIAN (ITAL)
Either a series of three, one-term elementary courses (Italian 1, 2, and 3) or two, one-term courses (Italian 11, an accelerated course combining Italian 1 and 2, followed by Italian 3), gives students the foundations they need in the language and allows them to satisfy Dartmouth’s language requirement. They are then able to move on to the intermediate courses, Italian 9 (Italian Culture) and Italian 10 (Introduction to Italian Literature).

Students interested in seeking Advanced Placement in Italian should inquire at the Department of French and Italian, 315 Dartmouth Hall, during New Student Orientation in September, or email franin@dartmouth.edu.

COURSE PLACEMENT AND EXEMPTION
The scores of the SAT II Subject Test and the CEEB Advanced Placement Examination will be used as follows:

Course placement:
1. A student who receives a score of 0-530 on the SAT II subject test will be placed in Italian 1.
2. A student who receives a score of 540-600 on the SAT II subject test will be placed in Italian 2.
2. OR

ments improve proficiency in listening, speaking, practice of Italian grammar. A broad variety of assignments deepen their understanding and further their practice.

Builds on skills acquired in Italian I. Students learn the basics of Italian grammar and acquire a broader understanding of Italian culture through materials that enable them to use the language in context.

3. Introductory Italian III (F, W, S)

Refines spoken and written language skills by reinforcing grammatical structures and expanding vocabulary. Exposure to a broad spectrum of language styles ranging from colloquial to formal and use of multiple Italian language sources such as literature, advertising, comics and television. Frequent oral and written assignments with a focus on culture.

Geography (GEOG)

Geographers study the material and symbolic transformation of the earth in relation to both human and natural processes. In keeping with contemporary global cultural, political, economic and environmental shifts in culture, the boundaries of the geographic discipline are dynamic. Central topics of study include, for example, international development, globalization, climate change, immigration and new spatial technologies. Theories of space, scale, location, place, region, mobility and displacement allow geographers to critically analyze change in both human and physical environments.

Geography is both a natural science and a social science as it examines people and their environment and serves as a bridge between the physical and cultural worlds. Human geography (a social science) is concerned especially with the political, economic, social, and cultural processes and resource practices that shape particular places and are shaped by them. Physical geography (a natural science) focuses on the earth systems that create the natural environment, such as weather, soils, biogeography, and earth sculpting processes.

CREDIT ON ENTRANCE AND EXEMPTIONS

Students who have scored a 5 on the Human Geography CEEB Advanced Placement Examination, a 7 on the Higher-Level International Baccalaureate in Geography, or an A on the Higher Level Geography A-Level Exam will receive credit on entrance for Geography 1. Students with an AP exam score of 4 will receive an exemption from Geography 1 as a prerequisite to the major.

The following courses are recommended for first-year students (GEOG):

1. Introduction to Human Geography (F, S)
2. Global Health and Society (W, S)
3. The Natural Environment (F)
4. Global Poverty & Care (F)
5. Global Climate Change (S)
6. Introduction to International Development (F, W)
7. Climate Change and the Future of Agriculture (W)
8. Wilderness, Culture and Environmental Conservation (S)
9. Food and Power (S)
10. Geopolitics & Third World Development (S)
11. Urban Geography (F)
12. American Landscapes & Culture (F)
13. Social Justice and the City (W)
14. Immigration, Race & Ethnicity (W)
15. Earth Surface Processes and Landforms (S)
16. Climate Extremes (S)
17. Environment and Politics in S.E. Asia (W)
18. Geographical Information Systems (F, S)

SELECTED FALL TERM COURSES (GEOG) RECOMMENDED FOR FY STUDENTS

1. Introduction to Human Geography

The purpose of this course is to provide an understanding of how human societies organize their geographic space and why certain patterns emerge in the resulting human landscape. Principles of location, place, territoriality and geopolitics, migration, gender, economic change, and power are used to examine the geographic distribution of human activity. Geographic comparisons are drawn between North and South, and on global, regional, and local issues. Dist: SOC or INT; WCult: CI.

3. The Natural Environment

Our natural environment results from an array of climatic, biogeographic, and other physical processes that have changed dramatically over time in response to natural and human-induced disturbance. This course begins by presenting the fundamentals of atmospheric processes; then examines the physical controls on the resulting global pattern of landforms, soils, and vegetation biomes across spatial and temporal scales; and ultimately explains the form and pattern of the earth’s physical geography. Emphasis is also placed on demonstrating the role of human disturbance on these natural processes through shifts in global climate, land use, deforestation and other anthropogenic mechanisms. The media of presentation will be lecture and both field and laboratory exercises. Dist: SLA.

4.01 Global Poverty and Care

This course explores causes and patterns of global poverty and links this with the urgent need for care and care ethics in our lives and in society broadly. We will focus particularly on how care work is devalued and globalized through international flows of care that contribute to global inequality.
Recommended Courses for First-Year Students

Through our analysis of global interconnections, we will think about our responsibilities to care for those who are near and those who are across the globe. Dist: INT or SOC.

6. Introduction to International Development (Identical to International Studies 16)
Why are some countries rich and others so persistently poor? What can and should be done about this global inequality and by whom? We address these development questions from the perspective of critical human geography. Focusing on the regions of Latin America, Africa and Asia, we examine how development meanings and practices have varied over time and place, and how they have been influenced by the colonial history, contemporary globalization, and international aid organizations. Dist: SOC or INT; WCult: CI.

22. Urban Geography
This course examines the historical, cultural, and socio-economic geographies of cities. We begin by tracing the process of urban development from its inception over 5,000 years ago, to industrial modern cities, to postmodern urban forms, using case studies to illuminate certain key features and processes. We then focus on understanding the particular dynamics that shape cities today. Examples are widely drawn but particular attention will be given to American urban patterns and processes. Dist: SOC.

24. American Landscapes and Cultures
Someone once said that Americans are a people in space rather than a people in time. A political configuration of relatively recent vintage, the United States, nevertheless, occupies a vast amount of space. The occupation and ordering of that space has produced distinctive landscapes with many regional variations. This course will examine the formation of these cultural landscapes beginning with those produced by Native Americans, and following the settlement process up to contemporary, post-modern America. Along the way, we will explore, among other things, the development of such American landscape elements as grid-pattern towns, cowboy ranches, skyscrapers, shopping malls, and corporate office parks. Dist: SOC; WCult: Cl.

50. Geographical Information Systems
Geographical information systems (GIS) are computer-based systems that process and answer questions about spatial data relative to concerns of a geographic nature. This course focuses on the basic principles of GIS, including data capture and manipulation, methods of spatial interpolation, and GIS trends and applications. The course is not intended to train students to be GIS operators; rather, to explain the fundamentals of this rapidly growing technology. Dist: TLA.

German (GERM)
The Department of German Studies introduces students to the language, literature, cinema, art, music, culture, and philosophy of Germany, Austria, and Switzerland. Its off-campus programs take place in the fascinating city of Berlin, and its students frequently win internships and prestigious fellowships there and elsewhere in the German-speaking world. Its students also often go on to highly successful careers in business, law, medicine, education, engineering, and politics. The Department welcomes students of all levels of proficiency, including those who have never learned German. Its elementary courses (German 1, 2, and 3) offer intensive training in hearing, speaking, reading, and writing the language. Intermediate courses (German 10.00, 10.01, 10.02, and 10.03) explore German culture while reinforcing grammar and expanding vocabulary. Courses taught in English (German 13-15 and 42-47) and advanced seminars (German 61-84) address a variety of specific literary and other topics. Completing German 3 satisfies Dartmouth’s foreign language requirement and signifies a level of fluency adequate for an intermediate course.

CREDIT ON ENTRANCE AND ADVANCED PLACEMENT
Students who score 720 or greater on the SAT II German test or who score 5 on the CEEB Advanced Placement Examination in German are exempted from Dartmouth’s foreign language requirement and place into any of the Department’s intermediate courses (10.00, 10.01, 10.02, and 10.03). Students who score 4 on the AP exam are placed into German 3. Students who have studied German but not taken the SAT II test or the AP Exam in German or who score less than 4 on the latter should take the departmental placement exam online (*).

TRANSFER CREDIT
Transfer credit is not granted for German courses taken at other colleges and/or universities before matriculation at Dartmouth. The departmental chair may authorize exceptions.

SELECTED FALL TERM COURSES (GERM)
1. Introductory German
2. Introductory German
Introduce German as a written and spoken language as well as salient issues of everyday and cultural life in German-speaking countries.

3. Intermediate German
Comprises study of basic grammar, with emphasis on the expansion of vocabulary and development of conversational skills, as well as on the reading and discussion of texts of historical, literary, and general cultural interest.

10.01. Intermediate German Language and Culture: To Be Young and German
Investigates youth cultures in the German-speaking world, analyzing different ideas of youth and their political and cultural impact in four distinct units: fairy tales and nation building in the early nineteenth century; sexual awakening in the early twentieth century; authoritarian regimes of the mid- and late twentieth century; and youth rebellion in post-war and post-unification Germany. Dist: SOC; WCult: CI.

Government (GOVT)
Political science is a highly diverse field united around a core interest. Political scientists study power, especially power used for public purposes: how it is created, organized, distributed, justified, used, resisted, and sometimes destroyed. American political science is traditionally divided into four subfields: American politics, comparative politics, international relations, and political theory and public law. Students may choose to focus on one of these subfields or may select courses according to some other intellectual plan.

The prerequisite to the major is one course in statistics and the methods of social science — either Government 10, Economics 10 or Math 10. A standard government major comprises at least 10 courses (beyond the prerequisite) chosen to constitute an intellectually coherent program. These courses should include two introductory courses, six additional courses at any level, an advanced seminar or the honors program as the senior culminating experience, and an additional advanced seminar. The minor in government consists of two introductory courses, four upper-level courses (Government 10 may count as one of the upper-level courses), and one advanced seminar, chosen to constitute an intellectually coherent program.


SELECTED FALL TERM COURSES (GOVT)
3. The American Political System
An examination of the American political process as manifested in voting behavior, parties and their nominating conventions, interest groups, the Presidency, Congress, and the Judiciary. Special emphasis is placed on providing the student with a theoretical framework for evaluating the system including discussions of decision-making, bargaining, and democratic control. Dist: SOC; WCult: W.

4. Politics of the World
This course examines democracy and dictatorship, revolutions and social movements, political development, and the nature of political regimes and institutions around the world. Students learn how political decisions are reached, how actors are mobilized, and whether and how authority can be exercised without being abused in a wide variety of political settings. Dist: SOC or INT.

5. International Politics
This course introduces the systematic analysis of international society, the factors that motivate for-
eign policies, and instruments used in the conduct of international relations. Particular attention is given to power and economic relations; to cultural differences that may inhibit mutual understanding or lead to conflict; to nationalism and other ideologies; to the requisites and limits of cooperation; and to the historical structuring and functioning of international institutions. Dist: SOC or INT.

6. Political Ideas
The course is designed to introduce students to political philosophy. It opens with the classic contrast between Plato and Machiavelli concerning the problems of justice and power. The course then examines several basic positions in the development of modern political philosophy — liberalism, socialism, and conservatism. Among the individual thinkers considered as representative of these positions are Locke, J. S. Mill, Rousseau, Marx, and Burke. Dist: TMV.

10. Quantitative Political Analysis (F, S)
This course will provide students with useful tools for undertaking empirical research in political science and will help them to become informed consumers of quantitative political analysis. The course will first consider the general theoretical concepts underlying empirical research, including the nature of causality, the structure and content of theories, and the formulation and testing of competing hypotheses. The course will then employ these concepts to develop several quantitative approaches to political analysis. Students will be introduced to two statistical methods frequently used by political scientists: contingency tables and linear regression. By learning to systematically analyze political data, students will gain the ability to better conduct and evaluate empirical research in both its quantitative and qualitative forms. Dist: QDS.

Greek
(See program description under Classics.)

Hebrew
(See program description under Middle Eastern Studies.)

History (HIST)
The Department of History offers a major, a minor, a modified major, and, for outstanding students, a senior-year honors program. A common aim informs all work in the department: to implement historical approaches in considering human experience throughout the world and across time.

With its inherently strong sense of chronology, change, variety, conflict, and complexity, the discipline of history offers a constant antidote to cultural myopia and parochialisms of nation, class, and epoch. In a rapidly changing world, a historical awareness is more valuable than ever. Disciplined historical inquiry is a unique means of freeing ourselves to be vigorously and genuinely contemporary.

Most courses fall into one of four areas: 1) United States, 2) Europe, 3) AALAC (Africa, Asia, Latin America, and the Caribbean), or 4) inter-regional. The numbering system for history courses does not represent sequencing but rather designates subfields (e.g., all 40s- and 50s-level courses cover European history, all 60s- and 70s-level courses cover Latin American, African, and Asian history). Introductory-level courses that presume no prior work in the field are numbered 1-6.

A student is advised to begin studying in History with a course he or she finds interesting. The introductory level classes (History 1-9 as above) are encouraged as good entry points. Topics courses may demand greater amounts of reading and research, as well as more advanced writing proficiency and intellectual sophistication.

The history department sponsors a Foreign Study Program to London in the fall. Prerequisites include completion of two history courses. Students are also required to submit a proposal for an independent field project on a topic of British, European, American, or world history that makes use of London’s research opportunities. Participants are usually juniors.

ADVANCED CREDIT
Only transfer students may receive credit for courses taken at other colleges or universities prior to matriculation at Dartmouth.

SELECTED COURSES (HIST)
While we have listed below the introductory courses in history, there are also many upper-level history courses that are open to all students with few or no prerequisites. Consult the ORC or visit the department’s website for a complete list of departmental offerings.

1. Turning Points in American History (W)
Students in this course will analyze and evaluate a very select number of “pivotal moments” over the past four centuries of American history. As an introduction to historical thinking and argumentation, the course will combine close scrutiny of documents from the past with an awareness of interpretive issues of contingency, determinism, and historical agency raised by leading contemporary historians.

3.03. Europe in the Age of Violence (S)
The last two centuries were an era of dramatic transformations and contradictions: while Europeans enjoyed unprecedented prosperity, technological advances, and social mobility, they also unleashed and experienced empire, terror, total war, foreign occupations, and mass murder. Throughout these 100 years, contrasting visions of a new society ushered in a range of different regimes—monarchical empires, liberal republics, murderous and racist dictatorships, Communist autocracies, and a democratic welfare states—yet these visions also led to the emancipation of women, the development of a new consumer society, the creation of environmentalist movements and new countercultures, and the transformation of everyday lives.

5.02. Introduction to the History of the Islamic Middle East (F)
This course is a survey of the histories and cultures of the Islamic Middle East, starting in the era before the advent of Islam in the 7th century until the eve of the 20th century. This class will begin with the regional and global contexts in which Islam emerged, examining the history of the Prophet Muhammad, the Qur’anic revelation, and the first community of believers. We will then look at the expansion of the “abode of Islam” over the course of several centuries, asking why so many people in so many different regions converted to Islam. We will also study philosophical, cultural, legal, political, and social trends in region now known as the Middle East and North Africa until the era of early European colonialism.

5.04. Introduction to Korean Culture (W)
This course provides an introduction to Korean culture and history, examining Korea’s visual and textual expressions from the pre-modern age to the twentieth century. What are the origins of Korean national and cultural identities? How have Korean claims of cultural distinctiveness been manifested and modified over time? Tracing answers to these questions simultaneously helps us to consider how and why Korea has entered America’s conscious- ness. As Korea matters to the US not simply as a fact but as a project, this course avoids portraying Korea through any generalized statements or uncritical categories. Rather, students are encouraged to explore novel perspectives on Korea and thereby unravel their own prejudices and agendas. No prior acquaintance with the Korean language is required.

5.05. The Emergence of Modern Japan (W)
A survey of Japanese history from the mid-nineteenth century to the present. Topics to be covered include the building of a modern state and
5.06. Pre-Columbian and Colonial America (S)
This course will examine the pre-Columbian civilizations of the Andes and Mesoamerica, the causes and consequences of the Spanish and Portuguese Conquests, and the establishment of colonial societies and economies.

5.11. Gandhi, Twentieth-Century India and the World (F)
This course explores the political career of Mahatma Gandhi, the leader of the Indian nationalist movement and the key figure in formulating global theories of non-violence. It examines the formation of Gandhi’s philosophy in England and South Africa, his impact on the struggle for independence in India, and his conflicts with Indian opponents. It will also discuss the legacy of Gandhi in India after his death and in civil rights movements elsewhere in the world.

8.02. The Making of the Modern World Economy, 1800-2014 (S)
This course introduces students to major economic developments of the last two centuries in global perspective. It addresses themes such as the Industrial Revolution and the “Great Divergence;” the political economy of imperialism; the economics of war; the transformation of the world financial system; the economics of development; and the roots of the crisis of 2007/8. Students can expect to acquire a historically founded understanding of the global economy of today.

8.04. History of Sexuality (S)
How have historical processes produced distinct sexual practices and identities over time? This course engages 300 years of a history that often evaded the historical record or was deliberately purged from it and asks how more traditional topics of U.S. historical inquiry—immigration, citizenship, economic organization, intellectual and artistic production, racialization, formal politics, law, religious practice—can yield new insights when sexual history is included as a legitimate dimension of analysis.

8.06. Food History (S)
We will look at issues of food production and consumption, and how our relationship to food contributes to the political and social structures that we live with. Our approach will be historical and pay special attention to the ways in which our production and consumption of food has been shaped by the movement of people over the last century. The readings explore how food creates ways for people to form bonds of belonging while also creating bonds of control and regimes of inequality.

9.03. The Global Thirties: Economics and Politics (S)
This course provides an overview of the global history of the Great Depression of the 1930s. The course addresses themes such as the international economic order of the 1920s, the economic causes of the Depression, the political responses to the crisis, the rise of economic planning, and the legacy of the 1930s in post-war development states and economic thinking. Students will understand why the Depression influences economic theory and policymaking to this day.

Humanities 1 and 2 (HUMS)
Humanities 1 (Fall term, Dialogues with the Classics) and Humanities 2 (Winter term, The Modern Labyrinth) form a two-term sequence designed to introduce first-year students to the subject matter and intellectual perspectives of the humanities. Students engage with professors and each other in small and intense discussion sections and meet with professors for individual writing conferences. Faculty from a range of humanities departments (e.g., English, Music, French, Religion, Classics, Russian) also lecture from week to week on texts from many historical periods, national traditions, and literary genres.

Humans 1 and 2 draw students who love reading, who enjoy immersing themselves in works of art that have profoundly influenced human culture from the ancient world onwards, and who are not daunted by intellectual challenge. The Humanities sequence lays an excellent foundation for further study in departments across the humanities and social sciences, from philosophy to anthropology and from art history to government.

Completing Humanities 1 satisfies the Writing 5 requirement; completing Humanities 2 fulfills the First-Year Seminar requirement.

Students interested in taking Humanities 1 and 2 must apply for acceptance into the sequence by July 25, 2018. For further information on how to apply, please see www.dartmouth.edu/~hums1-2/.

SELECTED FALL TERM COURSE (HUMS)
1. Dialogues with the Classics
Through a selection of compelling books and artworks from antiquity to the present, the course introduces students to key moments in global, especially Western, culture. The interpretative approaches taken to these works, and the connections drawn between them, will prepare students for further study in multiple areas across the humanities and social sciences. Readings have recently included texts by Montaigne, Homer, Munro, Woolf, Machiavelli, Borges, Plato, Shakespeare, Vergil, Salih and Morrison, as well as units on opera, 20th-century European art, and contemporary film.

International Studies (INTS)
The Dickey Center offers an interdisciplinary minor in international studies that allows Dartmouth students, regardless of major, to become educated in the cross-cutting global forces that shape the vital issues of our day. These issues — environmental change, global health crises, global inequality, terrorism and violence — transcend boundaries by their very nature, and as such cannot be understood from a single disciplinary perspective. At the same time, a strong disciplinary grounding is essential for providing a rigorous training and relevant bodies of knowledge to ascertain facts and understand values.

The international studies minor aims to make students cognizant of the interplay between local and global processes, human and environmental interactions, and places, identities and culture, and to prepare them to live productive, responsible lives in an interconnected and rapidly changing world.

Please visit the Dickey Center’s website for more information about the minor and a complete listing of courses: http://dickey.dartmouth.edu/teaching-learning/international-studies-minor.

The six-course sequence for the minor includes four multidisciplinary courses, one advanced language course, and one elective course of international scope. None of the international studies courses have prerequisite requirements and all are open to first-year students for enrollment.

The following courses are recommended for first-year students (INTS):
15. Violence & Security (W)
16. Introduction to International Development (F, W)
17. Cultures, Places, & Identities (F, W, S)
18. Global Health & Society (W, S)

Italian
(See program description under French and Italian.)

Japanese
(See program description under Asian Societies, Cultures, and Languages.)

Jewish Studies (JWST)
The Jewish Studies Program serves to provide a focal point for the various courses in Jewish religion, literature, history, society and culture that are given at Dartmouth as well as to sponsor special course offerings and a variety of academic activities related to the discipline. The Jewish Studies Program is interdisciplinary, and all of our courses are cross listed with other departments and programs. We currently offer a minor in JWST and a major is possible by special request.

The following courses are recommended for first-year students:
06. Introduction to Judaism
11. History and Culture of the Jews II: The Modern Period
36. Jewish Views of Christianity
37. History of the Holocaust
40. Politics in Israel/Palestine
53. Gender and Judaism

SELECTED FALL TERM COURSES (JWST)
JWST 06. (RELI 06) Introduction to Judaism
This course offers an introduction to Judaism by examining three of its central spiritual manifestations: (1) development, observance, and study of the Halaka (religious law); (2) philosophical contemplation; and (3) mystical experience and theosophical speculation. Ancient and modern challenges to the tradition will be studied in some detail, and an attempt will be made to determine what might constitute a unity of such a diverse tradition.

JWST 11. (HIST 94) History and Culture of the Jews II: Modern
An introductory survey of Jewish history and culture during the modern period. Opening with The Merchant of Venice, we examine the economic role of Jews in medieval and post-Renaissance Europe and changes in Jewish identity, including film, ritual, religious thought, and new forms of Jewish identity.

Latin
(See program description under Classics.)

Latin American, Latino and Caribbean Studies (LALACS)
LALACS is an interdisciplinary program that offers courses in the social sciences and humanities on Latin America, Latinos in the United States, and the Caribbean. This region includes among the world’s most dynamic economies, rich and complex cultures, and complicated and vital transnational relationships. LALACS teaches students how to think critically about the relationship between the US and its Latin American and Caribbean neighbors. Courses in Latino Studies are well suited to help Dartmouth students understand the United States where Latinos comprise among the largest ethnic groups. All courses are taught in English.

The following courses are recommended for first-year students:
LACS 1. Introduction to Latin America and the Caribbean (W)
LACS 24. (FS 42.14) Mexican Cinema (S)
LATS 8. (HIST 8.06) History of Food (S)
LATS 20. (HIST 31.1) Latinx Social Movements (W)
LATS 21. (GOVT 30.12) Latino Politics (F)
LATS 25. (FS 47.24) Race and Gender in American Film (F)
LATS 45. U.S. Mexican Borderlands (W)

SELECTED FALL TERM COURSES (LALACS)
LATS 21. (GOVT 30.12) Latino Politics
Latinx politics is one of the most complex areas of study in American politics. The Latinx population is diverse, with generational status and national-origin being just two of many significant cleavages. The relationship between political institutions and the Latinx population has evolved over time and still varies significantly across communities. While being attentive to these issues, this course provides an understanding of Latinx political behavior and the representation of Latinx in federal and subnational policymaking.

Linguistics (LING)
Linguistics is the scientific study of human language. Linguists investigate essential aspects of languages’ sounds and sound systems, their word and sentence structures, meaning, sociocultural contexts for language use, and language change. Students in linguistics take most of their courses in the program.

Linguistics 1, taught each fall, winter, and spring, offers an introductory description of human language and its use; this course serves as a prerequisite for subsequent study in linguistics.

The following courses are open to first-year students (LING):
1. Introductory Linguistics (F, W, S)
7. First-year seminar (S)
11.13. The Language-Music Connection (F)
17. Sociolinguistics (S)
18. History of the English Language (F)
21. Phonology (LING 01 Prerequisite) (S)
23. Semantics and Pragmatics (LING 01 Prerequisite) (W)
26. Morphology (LING 01 Prerequisite) (W)
33. Typology (LING 01 Prerequisite) (S)

SELECTED FALL TERM COURSES (LING)
1. Introductory Linguistics
An introduction to the scientific study of human language. The course teaches methods of analyzing languages’ sound systems (phonology), word structure (morphology), sentence patterns (syntax), and systems of meaning (semantics and pragmatics). Some important implications of linguistics for the study of human cognition and cultural behavior will be discussed. Stanford. Dist: QDS.

11.13. The Language-Music Connection
Language and music are universal components of human experience, so integral that they are often considered part of what defines us as humans. While we treat them as distinct phenomena, the overlap between the two is immense, structurally, neurologically, and culturally. Such connections have long been recognized, but recent research from diverse fields like linguistics, ethnomusicology, cognitive psychology, anthropology, and neuroscience continues to reveal just how intertwined the two faculties are. Drawing on this body of research and our respective specialties, we explore the language-music connection from the basic ingredients (pitch, timbre, rhythm, syntax), to cultural expression, to evolution and origins. Running through the course is a hands-on case study of a West African xylophone tradition where language and music are so intimately related that they cannot be separated. Students will be taught by a master of the tradition, Mamadou Diabaté, to feel for themselves what it means to speak through an instrument. McPherson/Levin. Dist: ART, ICS.

18. History of the English Language
The development of English as a spoken and written language as a member of the Indo-European
Recommended Courses for First-Year Students

language family, from Old English (Beowulf), Middle English (Chaucer), and Early Modern English (Shakespeare), to contemporary American English. Topics may include some or all of the following: the linguistic and cultural reasons for "language change," the literary possibilities of the language, and the political significance of class and race. Pulju. Dist: QDS; WCult: W.

Mathematics (MATH)
The Department of Mathematics offers a wide variety of courses for interested students. Many (but not all) students begin their study of mathematics at Dartmouth by taking a Calculus course appropriate to their preparation. Students who have not had the opportunity to take Calculus before coming to Dartmouth should take Mathematics 1, which is an introduction to Calculus that reviews appropriate pre-calculus material. Students whose SAT II Math Subject Test scores suggest that this sequence may be appropriate for them will be placed by the department in Mathematics 1, but students who have not had Calculus before may self-place into Mathematics 1 as well. Students completing Mathematics 1 who wish to continue the Calculus sequence continue in Mathematics 3, where they revisit some of the core topics in Mathematics 1 in more depth while applying them in new ways.

Students who have seen some aspects of Calculus before should assess their placement through our Math Placement System on Canvas (see below). Those who do not place into Mathematics 8 or 11 should take Mathematics 3. Normally, no student who has completed any portion of a Calculus course before matriculation will take Mathematics 1. Students with concerns or confusion about their placement should consult the Math Placement System and/or the First-Year Advisor for Mathematics.

The following courses are recommended for first-year students (MATH):

1. Introduction to Calculus (F)
2. Calculus (F, W)
3. Applications of Calculus to Medicine and Biology (S)
4. Exploring Mathematics (F, W)
5. First-Year Seminar (S)
6. Calculus of Functions of One and Several Variables (F, W, S)
7. Multivariable Calculus with Linear Algebra (F)
8. Introduction to Statistics (S)
9. Accelerated Multivariable Calculus (F)
10. Multivariable Calculus (F, W, S)
11. An Introduction to Mathematics Beyond Calculus (W, S)
12. Discrete Probability (F, S)
13. Linear Algebra (F, S)
14. Differential Equations (F, W, S)
15. Linear Algebra (Honors Section of Mathematics 22) (W, S)
16. Introduction to Combinatorics (W)

CREDIT AND ADVANCED PLACEMENT
Qualified students may receive credit on entrance for one or two terms of calculus (Mathematics 3 and 8) with advanced placement into a higher course. In awarding credit on entrance and advanced placement, the Department of Mathematics bases its decisions on results of the CEEB Advanced Placement examinations and/or a departmental test given at Dartmouth (see our Math Placement System on Canvas). Students with exceptional preparation should contact the mathematics department prior to or during New Student Orientation.

The Mathematics 3 syllabus is similar to that of high school AB calculus. However, the sequel, Mathematics 8, is quite different from the BC calculus course: the first half corresponds to BC topics but the second half covers multivariable calculus. To better place students with BC experience, we offer Mathematics 11, which covers all of multivariable calculus. A student who receives a score of 4 or 5 on the CEEB Advanced Placement Examination for Calculus BC receives credit for Mathematics 3 and 8 and is placed into Mathematics 11. In this case, completing Mathematics 11 finishes the calculus sequence. A student who receives a score of 4 or 5 on the CEEB Advanced Placement Examination for Calculus AB or for the AB subscore of a BC exam, receives credit for Mathematics 3 and is placed into Mathematics 8. For students who think they may be qualified for Advanced Placement in mathematics, but who did not take either CEEB Advanced Placement Examination, or who feel their CEEB scores do not reflect their current qualifications, we offer local placement and credit exams. Students who scored a 3 on the AB exam or the AB Subscore are particularly encouraged to take the local department exam for credit in Mathematics 3. Students who scored a 3 on the BC exam may wish to take the local department exam for credit in Mathematics 8. All students are encouraged to review their calculus before the examination. Students who have advanced credit for Mathematics 3 but do not have additional credit and wish to continue the calculus sequence, typically begin with Mathematics 8.

At the end of Mathematics 8, the student may elect to take Mathematics 13 (Calculus of Vector Valued Functions) or any other course (e.g., 20, 22) for which Mathematics 8 is the sole prerequisite. Students with advanced credit for Mathematics 3 and who receive credit for Mathematics 8 based on the local placement exam, and wishing to continue with the calculus sequence are placed in Mathematics 11 in the fall. The most commonly chosen subsequent courses are Mathematics 24 (Honors Linear Algebra) in the winter, Mathematics 22 (Linear Algebra) in the spring, and/or Mathematics 23 (Differential Equations) in the winter or spring.

SELECTED FALL TERM COURSES (MATH)

1. Introduction to Calculus
   This course is an introduction to single variable calculus for students who have not taken calculus before. Students who have seen some calculus, but not enough to place out of MATH 3, should take MATH 3. MATH 3 reviews relevant techniques from algebra and pre-calculus, covers the manipulation and analysis of functions, including polynomial, trigonometric, logarithmic, and exponential functions, an introduction to convergence and limits, continuity, rates of change and derivatives, differentiation rules, and applications to approximation. Students wishing to continue their study of calculus after MATH 1 take MATH 3. Dist: QDS.

3. Calculus
   This course is an introduction to single variable calculus aimed at students who have seen some calculus before, either before matriculation or in MATH 1. MATH 3 begins by revisiting the core topics in MATH 1 — convergence, limits, and derivatives - in greater depth before moving to applications of differentiation such as related rates, finding extreme values, and optimization. The course then turns to integration theory, introducing the integral via Riemann sums, the fundamental theorem of calculus, and basic techniques of integration. Dist: QDS.

8. Calculus of Functions of One and Several Variables
   This course is a sequel to MATH 3 and is also appropriate for students who have successfully completed an AB calculus curriculum (or the equivalent) in secondary school. Roughly half of the course is devoted to topics in one-variable calculus, selected from techniques of integration, areas, volumes, numerical integration, sequences and series including Taylor series, ordinary differential equations and techniques of their solution. The second half of the course studies scalar valued functions of several variables. It begins with the study of vector geometry, equations of lines and planes, and space curves (velocity, acceleration, arclength). The balance of the course is devoted to studying differential calculus of functions of several variables. Topics include limits and continuity, partial derivatives, tangent planes and differentials, the Chain Rule, directional derivatives and applications, and optimization problems including the use of Lagrange multipliers. Prerequisite: Mathematics 3 or equivalent. Dist: QDS.

9. Multivariable Calculus with Linear Algebra
   This course includes the multivariable calculus material presented in MATH 8 along with a brief introduction to concepts from linear algebra. First-year students who have successfully completed a BC calculus curriculum in secondary school may complete multivariable calculus either by taking the two-term sequence MATH 9, 13 or by taking the single course MATH 11. Topics include vector geometry, equations of lines and planes, matrices and linear transformations, space curves (velocity, acceleration, arclength), functions of several variables (limits and continuity, partial derivatives, the derivative as a linear transformation, tangent planes and linear approximation, the Chain Rule, directional derivatives and applications, and optimization problems including the use of Lagrange multipliers).
first century, students with a strong background in the region are highly competitive for a wide array of professional opportunities, including consulting, NGOs, development, government, medicine, and law. We urge interested students to begin Arabic or Hebrew during their first term at Dartmouth.

**SELECTED FALL TERM COURSES**

**ARABIC (ARAB)**

Spoken by almost 300 million people in the world today, Arabic is the dominant language in over twenty countries in the Middle East and North Africa as well as one of the six official languages of the United Nations. It is also the language of a rich cultural heritage spanning many centuries. In addition to broadening your intellectual horizons and understanding of the Middle East, studying Arabic opens up a surprising array of exciting professional opportunities.

Almost all students of Arabic at Dartmouth arrive on campus with no previous background in the language, and therefore enroll in Arabic 1 during the fall of their first year (followed by Arabic 2 and 3 in the winter and spring). Students with some background in Arabic should contact Professor Tarek El-Ariss for placement. Completion of Arabic 3 satisfies the Foreign Language Requirement at Dartmouth.

**ARAB 1. First-Year Courses in Arabic (Arabic 1)**

This is the introductory course for Arabic. Students first learn the sounds and letters of the Arabic alphabet and then study basic vocabulary and grammar. Students learn how to communicate about a variety of practical topics, from describing university life to talking about family members. Arabic 1 is the fundamental course for further study of the language. Prof. Chahboun, Prof. Ouajjani.

**ARAB 21. Intermediate Arabic (Arabic 22)**

**ARAB 31. Advanced Arabic (Arabic 31)**

**MIDDLE EASTERN STUDIES (MES)**

The Middle Eastern Studies (MES) Program brings together scholars from across a wide range of disciplines to teach and research the great civilizations, societies, and cultures of the Middle East and North Africa. MES offers a wide array of courses on history, politics, religion, literature, and culture of the region (taught in English) as well as state-of-the-art language training in Arabic and Hebrew. MES also offers advanced seminars using primary sources. In addition to our offerings on campus, there is a full array of study abroad opportunities. The friendly, personal relationships that develop between professors and students in MES often extend beyond the students’ time on campus. Because of the pivotal role that the Middle East will play in the geo-politics, economics, and history of the twenty-first century, students with a strong background in the region are highly competitive for a wide array of professional opportunities, including consulting, NGOs, development, government, medicine, and law. We urge interested students to begin Arabic or Hebrew during their first term at Dartmouth.

**HEBREW (HEBR)**

Hebrew has been one of the world’s most influential languages, through the Bible and other great writings. Miraculously revived, Hebrew is the main language of six million Israelis, with world-renowned literature and cinema. Students new to Hebrew can begin with Hebrew 1 (Modern Hebrew) in the fall term and complete the language requirement with Hebrew 2 in winter and Hebrew 3 in spring. Students with previous experience should take the local language placement test during New Student Orientation. Students interested in participating on our exchange program with the Hebrew University of Jerusalem should contact Professor Lewis Glinert.

**Music (MUS)**

The thirty-five full and part-time faculty in the Department of Music offer a diverse and comprehensive curriculum. Introductory music courses are recommended for the general student body. Advanced music courses are offered frequently. Students may also receive private instruction for credit in string, brass, woodwind, and percussion instruments; classical or jazz piano; or in voice. Students may also receive credit for our chamber music, jazz, and contemporary performance laboratories (MUS 50) and for performance in a Hop ensemble (MUS 59). A first-year seminar is offered in the winter quarter. Introductory music courses are: Music 1-16. Music 20 and 25 are introductory courses that are prerequisites for the major.

The following courses are recommended for first-year students (MUS):

1. Beginning Music Theory (F, W, S)
2. Global Sounds (F)
3. 502. History of Jazz since 1959 (F)
4. 7. First-Year Seminar (W)
5. Programming for Interactive Audio-Visual Art (F)
6. 16.02. Music and Media in Everyday Life (F)
7. Introduction to Music Theory (W, S)
8. Melody and Rhythm (prerequisite: Music 20) (F)
9. 25. Introduction to Sonic Arts (F, S)
10. Sound Art Practice (S)
11. From Plato’s Republic to Mozart’s Magic Flute


**Recommended Courses for First-Year Students**

**(Early Classical Music) (F)**

43. From the French Revolution to The (Revolution)
   of Steve Jobs (Modern Classical Music) (W)

45.04. Music and Social Justice (F)

50. Performance Laboratories, Sections 1, 2, 3
   (F, W, S)

53–58. Studies in Musical Performance (Individual
   Instruction Program) (F, W, S)

59. Ensemble Performance and Leadership (F, W, S)

**ADVANCED PLACEMENT**

Students may be exempted from Music 20 for the
music major or minor by passing a local placement
exam administered by the Department of Music
just before the start of classes in the fall term.

**TRANSFER CREDIT**

Students who wish to receive transfer credit for
college music courses taken prior to matriculation
at Dartmouth should see the chair of the Depart-
ment of Music early in the fall term.

**SELECTED FALL TERM COURSES (MUS)**

1. Beginning Music Theory
   A course intended for students with little or no
   knowledge of music theory. Among topics covered
   are musical notation, intervals, scales, rhythm and
   meter, and general musical terminology. Concepts
   will be directly related to music literature in class
   and through assignments. Students will have the
   opportunity to compose simple pieces and work on
   ear training. No prerequisite. Dist: ART

4. Global Sounds
   A survey of music and music-making whose origins
   are at least partially in the non-European world. Ex-
   amples have included Indian raga, Javanese gamelan,
   and Gnawa trance music. Course work will include
   listening, reading, and critical writing assignments.
   Where possible, visiting musicians will be invited to
   demonstrate and discuss the music under consider-
   ation. No prerequisite. Dist: ART; WCult: CI.

5.02. History of Jazz since 1959
   This class examines developments in jazz, starting
   with historic 1959 recordings by Ornette, Coltrane
   and Miles Davis, followed by soul jazz, modal jazz,
   jazz funk, the avant-garde, big bands, Afro-Latin
   jazz and world jazz. Class work includes close list-
   ening, discussions, collaborations and in-class pre-
   sentations. Students also complete required reading,
   listening and writing assignments and attend jazz
   performances, resulting in a deeper understanding
   and appreciation for jazz and improvisation, both
   worldwide and in our daily lives. No prerequisite.
   Dist: ART; WCult: W

16.02. Music and Media in Everyday Life
   This course lends an ear to the roles and power of
   musical media in the new millennium. Prominent
   themes include: new media’s purported democra-
   tizing effects on the production, circulation, and
   consumption of sound; the changing roles, respon-
   sibilities, and relevance of musicians and media art-
   ists in the digital age; and the potential for musical
   and social media to redraw the boundaries human
   experience, ethics, memory, and identity at large.
   No prerequisite. Dist: ART; WCult: W

42. From Plato’s Republic to Mozart’s Magic
    Flute (Early Classical Music)
   This course introduces students to the composers,
   repertoires, and cultures of early Western music
   from ancient civilizations to ca. 1800. By examin-
   ing a wide selection of instrumental and vocal
   genres, we will reflect on critical issues of history,
   repertoire, virtuosity, class, religion, nationalism,
   exoticism, censorship, and humor. Among the
   composers we will study are Comtesse de Día,
   Hildegard de Bingen, Dufay, Josquin, Palestrina,
   Monteverdi, Pachelbel, Corelli, Purcell, Strozzi, J.S.
   Bach, Handel, Haydn, and Mozart. No prerequisite.
   Dist: ART; WCult: W

45.04. Music and Social Justice
   This course asks what we can do for music and
   what music can do for the world. Our research and
   discussions lead us not simply to concrete examples
   of music functioning as an agent of change, but
   furthermore to contested notions of what it even
   means (and takes) to claim that something—so-
   ciety, art, people, culture, values—has undergone
   notable transformation. How do we think and talk
   about change via discourses of reform, revolution,
   rehabilitation, activism, innovation, progress, and
   productivity? What are some distinguishing features
   of music and sound that might enable them to
   serve as flashpoints or vehicles for change? And
   how might you—in this class and beyond—engage
   with music and its technologies to fulfill causes
   most meaningful to you? No prerequisite. Dist:
   ART; WCult: CI.

50. Performance Laboratories
   Performance Laboratories provide weekly coaching
   and instruction in diverse forms of music mak-
   ing, and are open by audition to all Dartmouth
   students. Course work centers on musical readings,
   discussion, and informal performance of selected
   repertory chosen both for its intrinsic interest and
   for its relevance to the contents of course syllabi
   within the music department. Performance labora-
   tories may be taken for credit (three terms equals
   one credit) or on a not-for-credit basis. Subject to
   space availability, students may enroll in differ-
   ent laboratories during different terms. Terms of
   enrollment need not be consecutive. Dist: ART.

Native American Studies (NAS)

Through the study of culture, literature, history,
law, and contemporary issues, Native American
Studies courses seek to enrich our understanding of
Native Americans. Dartmouth’s Native Ameri-
can Studies Program is one of the oldest, and is
known as one of the best, in the country. Most
courses in the program are open to all students.
Courses may be used as a major or minor in Native
American Studies. The following courses are recommended for
first-year students (NAS):

8. Perspectives in Native American Studies (F, S)
14. (HIST 14) The Invasion of America: American
    Indian History pre-contact to 1830 (F)
15. (HIST 15) American Indians and American
    Expansion: 1800 - 1924 (S)
16. (HIST 39) 20th Century Native American
    History (W)
18. (ENVS 18) Native Peoples in a Changing
    Global Environment (F)
25. Indian Country Today (F)
32. (ENGL 53) Indian Killers: Murder & Mys-
    tery in Native American Literature and Film (S)
35. (ENGL 32) Native American Literature (S)

SELECTED FALL TERM COURSES (NAS)

8. Perspectives in Native American Studies
   The growing field of Native American Studies is
   inherently interdisciplinary. This course gives an
   overview of the relevant intellectual and cultural
   questions of tribal expression, identity, traditional
   thought, continuity, and sovereignty. Using readings
   from the areas of literature, philosophy, visual arts,
   anthropology, philosophy of history, and cultural
   and political discourse, we will examine how their
   discourses are used to promote or inhibit the ongo-
   ing project of colonialism in indigenous communi-
   ties and lives. Dist: SOC; WCult: NW.

18. Native Peoples in a Changing Global
    Environment
   This course is about indigenous peoples’ relation-
   ships to land and natural resources and the threats
   that rapid environmental changes, such as climate
   change and invasive species, pose to indigenous
   societies. What is at stake when significant changes,
   like the loss of a cultural keystone species, occur on
   indigenous homelands? In NAS 18 (ENVS 18), we
   attempt to understand the societal impacts of rapid
   environmental change from multiple perspectives
   including those of indigenous and non-indigenous
   actors. Dist: TMV; World Cult: NW.

Philosophy (PHIL)

Students who major or minor in philosophy learn to
follow complex lines of reasoning, expose presup-
positions, weigh evidence, craft arguments, make
objections and replies, offer creative answers to
philosophical questions, and construct independent
solutions to philosophical problems. Majors in
philosophy are knowledgeable about the main con-
temporary and historical areas, authors, concepts,
methodologies, techniques and problems of phil-
osophy. The benefits of a philosophy major extend
well beyond philosophy, and our students go on to
pursue careers in many areas, including law, film
and media, medicine, finance, the arts, and academia.
Please visit the department website for a complete
listing of courses: philosophy.dartmouth.edu.

The following courses are recommended for
first-year students (PHIL):

1.03 Philosophy and Economics (S)
1.05. Reasons, Values, Persons (F, S)

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1.08 Philosophy of Time & Time Travel (F)
1.09. Science, Superstition, and Skepticism (S)
1.10 Minds, Meanings, and Images (F)
3. Reason and Argument (F)
4. Philosophy and Gender (W)
5. Philosophy and Medicine (F)
6. Logic and Language (W, S)
7. First-Year Seminars in Philosophy (W)
8. Introduction to Moral Philosophy (W)
9.02. Environmental Ethics (S)
9.06. Friends, Lovers, Comrades: Ethical Issues of Special Relationships (S)

TRANSFER CREDIT
At most two transfer credits may be counted toward the major, but transfer credit cannot be used to satisfy the advanced seminar requirement.

SELECTED FALL TERM COURSES (PHIL)
1.03. Philosophy and Economics
What makes an economic system fair or unfair?
What does it mean to be economically rational?
How should we evaluate public policy?
How do we know when things go better or worse for a person?
This course will explore a range of fundamental issues in ethics and political philosophy that have deep implications for economic analysis including distributive justice, well-being, and rationality.
It will also examine philosophical perspectives on economic efficiency and social choice theory.

1.05. Reasons, Values, Persons
We will consider such questions as:
What makes a life worth living?
What makes a life a good life?
What, if anything, makes a life a meaningful life?
What, if anything, are the grounds of values?
What is a person?
What relation, exactly, do you bear to the person who first enrolled in this course?
What is freedom? Are you free?
What, if anything, do personalismo, freedom and morality have to do with one another?

1.08. Philosophy of Time & Time Travel
On the one hand, time is completely familiar. On the other, it is a total mystery. As you might expect, the combination makes for good philosophy.
In this course, we will study a variety of philosophical puzzles concerning the nature of time. Is time an illusion? Does time pass? Is the present special? Is time travel possible? Do the past and future exist?
Does time have a direction? What is spacetime?
What are the special and general theories of relativity? What do they imply about the nature of time?

1.10. Minds, Meanings, and Images
Most things don't mean anything. How is it that the contents of our minds mean something?
And what do different answers to that question tell us about the nature of minds, what it is to be self-conscious, what makes a person identical over time, and what we can know about the world and other persons?
This course will compare the answers that we find in Descartes, Locke, Berkeley, Hume, and Kant.
Their theories provide common reference points in much of contemporary philosophy.

3. Reason and Argument
An introduction to informal logic with special attention to the analysis of actual arguments as they arise in daily life as well as in legal, scientific, and moral reasoning.
Along with the analysis and criticism of arguments, the course will also consider the methods for constructing arguments that are both logically correct and persuasive.

5. Philosophy and Medicine
An examination of some philosophical issues in the field of medicine.
Primary focus will be on the moral issues that arise in dealing with individual patients, e.g., paternalism, informed consent, euthanasia, and abortion.
There will also be an attempt to clarify such important concepts as death, illness, and disease.

Physics and Astronomy (PHYS) (ASTR)
The Department of Physics and Astronomy offers a variety of introductory courses for students of different interests.

ASTRONOMY (ASTR)
Astronomy 1, 2, 3, and 4 are intended primarily for students who do not plan to major in a physical science.
These courses have no prerequisites and any one of them may be taken independently of the others.
Students who wish a more technical introduction to astronomy and astrophysics are encouraged to take Astronomy 15 and/or 25.
Math 3 and an introductory physics course (or permission of the professor if such a course was taken in high school) is required for enrollment in Astronomy 15.

Students interested in majoring in astronomy should consult Professor John Thorstensen.
A brochure describing the major, including research opportunities for undergraduates, is available from the department office in 105 Wilder.

The following are recommended first-year courses (ASTR):
1. Exploration of the Solar System (S, X)
2. Exploring the Universe (F, X)
3. Exploring the Universe with Laboratory (F, X)
15. Stars and the Milky Way (W or S)
Astronomy has a Foreign Study Program in South Africa, open to both majors and non-majors.

Students intending to do the FSP should postpone taking Astronomy 15 until the FSP term.
The FSP is offered in alternate winter term, with the next offering 19W.

PHYSICS (PHYS)
Physics 1, 2, and 5 are intended primarily for students who do not plan to major in a physical science.
These courses have no prerequisites and any one of them may be taken independently of the others.

There are three sequences of physics courses open to first-year students.
Physics 13 and 14 are intended for students oriented toward the physical sciences or engineering.
The two courses constitute the regular introduction to the fundamentals of mechanics, electricity and magnetism, and freely use calculus.
These courses are offered in the fall (13), winter (13, 14), and spring (14).
First-year students who take Physics 13/14 fall-winter may take Physics 19 in the spring term and can then start intermediate physics (40's level) in their second year.
Alternatively, students who complete Physics 13/14 in the spring term can take Physics 19 in the fall or spring terms of their second year, and then move on to intermediate physics.
Math 3 is a prerequisite for Physics 13, Math 8 can be taken concurrently with Physics 13 and is a prerequisite for Physics 14.

Physics 15 and 16 (fall and winter) are the accelerated track into the physics major.
These courses are intended for students who have an extremely strong background in both calculus and classical mechanics from high school.
Students must qualify for Physics 15 by taking a local placement exam offered by the department during New Student Orientation.
These two courses together cover the material of Physics 13, Physics 14, and Physics 19.

Students who complete Physics 15/16 and have sufficient math may move into intermediate physics (40's level).

Physics 3 (F) and Physics 4 (W, S) are somewhat less in-depth treatments of the topics covered in Physics 13/14 and 15/16, with the addition of some modern physics.
These courses are aimed at students interested in the life sciences or medical school.
They do not serve as engineering prerequisites.
Relatively few first-year students take these courses.

Students interested in majoring in physics or engineering physics should consult the departmental undergraduate advisor, Professor Kristina Lynch.
A brochure describing the major, including research opportunities for undergraduates, is available from the department office in 105 Wilder.

Here is an example of an introductory sequence for a student entering with no math or physics exemptions:
F - Math 3
W - Physics 13, Math 8
S - Physics 14, Math 13
F - Physics 19

Students entering with exemption from Math 3 or 8 may opt to take:
F - Physics 13, Math 8
W - Physics 14, Math 13
S - Physics 19 or 31

Students with exemption from Math 3 or 8 and placement into Physics 15 via the departmental local placement exam may opt to take:
F - Physics 15, Math 8 or 13
W - Physics 16, Math 13 or 23
S - Physics 31 or 40's level
Recommended Courses for First-Year Students

CREDIT ON ENTRANCE AND ADVANCED PLACEMENT
A score of 4 or 5 on CEEB Advanced Placement Examinations in Physics results in Physics 3 exemption for the C-Mechanics exam, and Physics 4 exemption for the C-Electricity exam.

Exemption from Physics 3, 4, 13, or 14 can also be earned by passing a local placement exam given by the department. The exam may be taken by those who have had a substantial physics background in high school.

Students who have a grade of A in A-Level Physics are eligible for exemption from Physics 3 and 4 without taking the local placement exam.

Students are admitted to the accelerated sequence (Physics 15/16) based on (a) having placement into Math 8 or 9 or higher, and (b) satisfactory performance on an on-line placement exam administered prior to matriculation.

Students receiving pre-matriculation exemption from Physics 13 and Physics 14 based on the local placement exam may take Physics 19 in the fall or spring of their first year, provided they have the Math prerequisite (Math 13).

TRANSFER CREDIT
Students who wish to receive transfer credit for college physics courses taken prior to matriculation at Dartmouth should see the undergraduate advisor (Prof. Kristina Lynch) of the Department of Physics and Astronomy during Orientation. Such students may be required to pass a proficiency examination in order to obtain credit.

SELECTED FALL TERM COURSES

ASTRONOMY (ASTR)
1. Exploring the Universe
A survey of contemporary knowledge of the nature and the evolution of stars, our Galaxy, other galaxies, dark matter, the expanding universe, and the big bang. Physical processes underlying these phenomena are discussed. Identical to Astronomy 3, but without the observing laboratory. Dist: SCI.

2. Exploring the Universe, with Laboratory
See description above. Students will make observations with radio and optical telescopes. Supplemental course fee required. Dist: SLA.

3. Exploring the Universe (F, S)
See description above. Students will make observations with radio and optical telescopes. Supplemental course fee required. Dist: SLA.

PHYSICS (PHYS)

3. General Physics I
The fundamental laws and phenomena of mechanics, heat, wave motion, and sound, including relativistic concepts. The sequence Physics 3-4 is designed primarily for students who do not intend to take Physics 19. Prerequisite: Mathematics 3. Dist: SLA.

13. Introductory Physics I
The fundamental laws of mechanics. Reference frames. Harmonic and gravitational motion. Thermodynamics and kinetic theory. Physics 13, 14, and 19 are designed as a three-term sequence for students majoring in a physical science. Supplemental course fee may be required. Prerequisite: Mathematics 3 and 8 (at least concurrently). Dist: SLA.

15. Introductory Physics I, Accelerated Section
Physics 15 and 16 are an alternative sequence to Physics 13, 14, and 19 for students whose substantial background in physics and mathematics enables them to study the material at a greater speed than is possible in regular sections. Classical dynamics of particles and rigid bodies. Special Relativity. Introduction to Quantum Mechanics including wave-particle duality of radiation and matter. The Uncertainty Principle and the Schrodinger equation in one spatial dimension. One laboratory period per week. Supplemental course fee may be required. Prerequisite: Mathematics 8 or 9 concurrently and achieving a threshold score on the physics departmental placement exam. Dist: SLA.

Portuguese (PORT)
(See program description under Spanish and Portuguese.)

Psychological and Brain Sciences (PSYC)
Psychologists are interested in understanding observable behavior and in developing models of the underlying cognitive and physiological processes. Neuroscientists are interested in understanding how the brain functions, drawing from psychology, biology, chemistry, engineering, medicine, and computer science. The Department of Psychological and Brain Sciences offers courses in social interaction, sensation and perception, the physiological basis of behavior, cognitive neuroscience, human and animal learning, cognitive and language processes, social and cognitive development, personality, and the behavior disorders. The Department offers a major and minor in Psychology and a major and minor in Neuroscience.

Psychology 1 (Introductory Psychology) serves as a broad-based introduction to psychology as the science of behavior. This course is prerequisite for the Psychology major. Psychology 6 (Introduction to Neuroscience) is the prerequisite for the Neuroscience major.

The following courses are recommended for first-year students (PSYC):
1. Introductory Psychology (F, S)
6. Introduction to Neuroscience (F, W)

ADVANCED PLACEMENT
The department does not offer credit for Advanced Placement. Students who believe their preparation in Psychology is particularly strong may take a local placement exam during Orientation to determine if they should be exempted from Psychology 1.

Students who have received Advanced Placement credit for Statistics and who are considering becoming Psychology majors should take the Methods in Psychological Science local placement exam during Orientation, which will be used to determine whether or not the student is exempted from Psychology 10 (Statistical Methods) and placed into Psychology 11 (Laboratory in Psychological Science).

TRANSFER CREDIT
It is possible for entering students to obtain transfer credit for Psychology 1 if they have taken an introductory psychology course at a four-year college or university. In order to qualify for such recognition, a grade of C or better is required. Students who wish to apply for such recognition should follow the process outlined on the Registrar’s Office website for prematriculation credit and submit the Prematriculation Transfer Credit Approval Form along with a syllabus, the title, author, and edition of the text used, and a transcript to the department. Courses taken in secondary schools or two-year colleges will not be considered for credit. The decision to award credit will be based on the materials submitted.
Policy 5 and the social science statistical analysis
local levels pursued in the Public Policy courses. The
process at the international, federal, state, and
country is the direct connection to the public policy
prerequisite (in most cases, Government 10 or an
Public Policy 5 during the Winter 2017 Term and
including a capstone public policy seminar. Incom-
to build on their coursework taken in
real world of public policymaking. The Public
three courses in a particular public policy domain,
Nelson A. Rockefeller Center sponsors an
complex goal-oriented behavior. Dist: SCI.
several nerves cells. We will then consider increas-
ing more complex neural circuits, which by the end of
an analysis of the brain mechanisms that underlie
Policy 5: Introduction to Public Policy; a choice
 gateway public policy process course, Public
minor for students with a quantitative background in

6. Introduction to the Neurosciences
This course provides students with an introduction to
the fundamental principles of neuroscience. The course
will include sections on cellular and molecular neuroscience, neurophysiology, neuroanatomy, and cognitive neuroscience. Neuroscience is a broad field that is intrinsically interdisciplinary. As a consequence, the course draws on a variety of disciplines, including biochemistry, biology, physiology, pharmacology, (neuro)anatomy, and psychology. The course will begin with an in-depth analysis of basic functions of single nerve cells. We will then consider increasingly more complex neural circuits, which by the end of the course will lead to an analysis of the brain mechanisms that underlie complex goal-oriented behavior. Dist: SCI.

Public Policy (PBPL)
The Nelson A. Rockefeller Center sponsors an
interdisciplinary minor in Public Policy for students of
all majors who seek to acquire a coherent program of
study organized around public policy challenges, such as health, education, the environment, leadership, and law. The minor in Public Policy allows students to build on their coursework taken in departments across campus by exploring various theoretical concepts of governance and socio-economic interaction and applying them to the real world of public policymaking. The Public Policy minor complements any major offered at Dartmouth, whether in the sciences, social sciences, or arts and humanities. Many students build an international dimension into their minor.

The six-course sequence for the minor includes a gateway public policy process course, Public Policy 5: Introduction to Public Policy, a choice of two 40-level public policy tools and methods courses from among twelve courses offered on a regular basis during the four academic terms; and three courses in a particular public policy domain, including a capstone public policy seminar. Incoming students are strongly encouraged to enroll in Public Policy 5 during the Winter 2017 Term and to complete the social science statistical analysis prerequisite (in most cases, Government 10 or an equivalent course) during their first year on campus.

What sets the Public Policy minor coursework apart from the more traditional courses at Dartmouth is the direct connection to the public policy process at the international, federal, state, and local levels pursued in the Public Policy courses. First-year students who complete both Public Policy 5 and the social science statistical analysis prerequisite are eligible to apply for the Rockefeller Center First-Year Fellowship Program. This Program, conducted each summer in Washington, DC, pairs 20 first-year students to serve as interns with Dartmouth Alumni Mentors who work in the public policy realm in Washington, DC. For more information about the Public Policy minor and the First-Year Fellows Program please contact Professor Shaiko, the Rockefeller Center’s Associate Director for Curricular and Research Programs, or Jane DaSilva, Public Policy Program Coordinator, via e-mail or at (603) 646-2229.

The following courses are recommended for first-year students (PBPL):
5. Introduction to Public Policy (W)
26. Health Policy and Clinical Practice (S)
28. Law, Courts and Judges (S, X)
41. Writing and Speaking Public Policy (S)
42. Ethics and Public Policy (F, S)
43. Social Entrepreneurship (W)
44. Polling, Public Opinion, and Public Policy (S)
46. Policy Implementation (S, X)
51. Leadership in Civil Society (S)
52. Leadership in Political Institutions (W)
85. Global Policy Leadership (F)

Quantitative Social Science (QSS)
The Program in Quantitative Social Science (QSS) offers a structured undergraduate curriculum that combines strong methodological and technical training with a concentration in a traditional social science field. The QSS curriculum is grounded in computing and quantitative analytical techniques, and students who study in the program leverage these techniques in the pursuit of data analysis in the social sciences.

QSS offers both a minor and a major; the major is open to all students who have honors standing in the College (overall grade-point average of 3.0). Students pursuing either the minor or the major in QSS combine a specialization in one of the social sciences with foundational coursework in mathematics, computer science, data analysis, and modeling. If a Dartmouth student is interested in anthropology, economics, education, geography, environmental studies, history, political science, psychology, or sociology as a quantitative social science, QSS is ready-made for the challenge. The strong training of Dartmouth QSS majors has led alumni to a variety of careers and advanced degrees, including university teaching and research, law, business, medicine, and public policy. Interested first-year students are advised to begin a curriculum in data analysis and mathematics and to consult with faculty associated with QSS.

SELECTED FALL TERM COURSE (QSS)
15. Introduction to Data Analysis
Methods for transforming raw facts into useful information. The course includes basic techniques for detecting interrelations among events and for assessing trends. Topics include exploratory data analysis, and QSS 15 may be used in some departments in place of an introductory methodology requirement. Prerequisite: Mathematics 3 or its equivalent or permission. Directed toward students with an aptitude for mathematics and statistical reasoning. Recommended for first-year and second-year students wishing to pursue coursework in QSS or continue in the social, biological, or physical sciences. Dist: QDS.

Religion (REL)
The Department of Religion offers a rich list of courses on a subject that you will encounter in many other departments. This is because religion is at the core of all cultures and societies. An objective understanding of this subject, therefore, is a crucial component of a liberal-arts education. The Department offers courses on the major religions of the ancient and modern world, as well as courses on religion and ethics, the nature of religious belief and language, myth and ritual, women and religion, and many other topics on the intermediate and advanced seminar levels.

The Department also offers a foreign study program at the University of Edinburgh in Scotland. Many students find that either a major or modified major in religion is an excellent choice for a concentration in the liberal arts. Please visit the Department website for a complete listing of courses: religion.dartmouth.edu.

The following courses are recommended for first-year students (REL):
1.04. Beginnings and Ends of Time (F)
1.05. Religion and Gender (S)
4. Religion of Israel: The Hebrew Bible (Old Testament) (F)
5. Early Christianity: The New Testament (S)
6. Introduction to Judaism (F)
7. First-Year Seminar in Religion (W)
8. Introduction to Islam (W)
9. Hinduism (W)
10. The Religions of China (F)
11. Religion and Morality (S)
13. Sports, Ethics, and Religion (W)
15. The Christian Tradition (F)
19.14. Cosmos, Justice & Evil (S)
19.22. Gender and Judaism (W)

TRANSFER CREDIT
Since the quality of instruction in religion at col-
leges and universities varies widely, the Religion
Department is hesitant to approve courses for pre-
matriculation and/or transfer credit and does so
only in rare cases. The Department requires a full
syllabus noting required readings and the name of
the instructor for any course in religion presented
for pre-matriculation credit. Application for credit
should be made through the chair of the Depart-
ment as soon as possible in the fall of the first
year. The Religion Department does not normally
approve more than one course per student for
transfer or pre-matriculation credit.
Recommended Courses for First-Year Students

SELECTED FALL TERM COURSES (REL)

1.04. Beginnings and Ends of Time
This course examines the visions of the emergence, decline, and extinction of the world in several religious cultures: Judaism, Christianity, Buddhism, Daoism, and contemporary USA. After investigating different ideas of how the world came to exist and various views of the end of time, we will compare different notions of salvation by which various religious cultures tried to assuage fears of the end of the world. With expectations for messianic redemption or visions of power these catastrophic imaginings and ideas of salvation served as the basis for missionary work and conversion as well as impetus for social and political transformations, rebellions, wars, imperial programs.

4. Religion of Israel: The Hebrew Bible (Old Testament)
An introduction to the religion of ancient Israel through an examination of a number of the books of the Old Testament (Hebrew Bible), including Genesis, Exodus, Joshua, Samuel, the Psalms, Job, and the prophets. Attention will also be given to the religion of Israel's Phoenician and Mesopotamian neighbors.

6. Introduction to Judaism
This course offers an introduction to Judaism by examining three of its central spiritual manifestations: (1) development, observance, and study of the Halaka (religious law); (2) philosophical contemplation; and (3) mystical experience and theosophical speculation. Ancient and modern challenges to the tradition will be studied in some detail, and an attempt will be made to determine what might constitute a unity of such a diverse tradition.

10. The Religions of China
An introduction to China's three major religions—Confucianism, Daoism, and Buddhism—through the reading of classic texts. Also, a look at important elements in Chinese folk religion: ancestor worship, temples, heavens and hells, and forms of divination. Special attention will be paid to the importance of government in Chinese religious thought and to continuity and change in the history of Chinese religion.

15. The Christian Tradition
An introduction to the variety of Christian beliefs, institutions, and practices from the first century to the end of the sixteenth century. Attention will be focused on understanding how Christian communities adapted and developed religious beliefs and practices in the face of changing historical circumstances.

19. Russian (RUS)
The study of Russian offers you a passport to the culture of the world's largest country. Russia covers 11 time zones. Its vast forests are sometimes called “the lungs of Europe and Asia.” Lake Baikal, which contains 20% of the Earth's fresh water, attracts tourists, scientists, and students alike (among them a number from Dartmouth). Russian gives you entrance to one of the world's richest artistic traditions, ranging from icon painting to Kandinsky and Chagall, from Chaikovsky to Stravinsky in music, and from pioneering filmmakers like Eisenstein to major directors of the late twentieth century, like Andrei Tarkovsky. Finally, a knowledge of Russian and Russian culture will open doors to careers in diplomatic and other government services, as well as journalism.

Since Russian 1 is offered only in the fall term, interested students should start taking the language in the fall of their first year. Three one-term courses (Russian 1, 2, 3) give students basic fluency in the elements of the Russian language. Russian 3 satisfies the College language requirement and gives the student access to the LSA+ in St. Petersburg. It also qualifies students for Russian 27, which serves as gateway courses for many of the department's more advanced language courses.

Three years of the language are offered, as are many courses in literature and culture. Those students who wish to major have two options: a major in language and literature, with an emphasis on one or the other; or a major in area studies, with courses about Russia taken in both the Russian Department and other Dartmouth departments, such as History, Government, Geography, and Economics. Most of the literature courses are taught in English, with the Russian majors doing extra work that draws upon their knowledge of the language. Most majors participate in the department's summer LSA+ at the University of St. Petersburg, but the program is open to all Dartmouth students with one year of Russian.

The following courses are recommended for first-year students (RUS):
1. First-Year Course in Russian (RUS)
2. 1, 2, 3. Introductory Russian (F, W, S)
3. 7. First Year Seminar (W)
4. 13. Slavic Folklore: Vampires, Witches and Firebirds (F)
5. 17. Russian Fairy Tales in Literature and Film (S)
6. 31. The World as Word: 19th Century Russian Fiction (W)
7. 32. Reading Red: 20th Century Russian Literature (S)
8. 36. The Seer of the Flesh: Tolstoy's Art and Thought (S)
9. 38.04. Madmen, Holy Fools, and Fanatics in Imperial Russia (W)
10. 38.06. Nothing is True and Everything is Possible: Politics, Media, and Religion in Post-Soviet Russia (F)

ADVANCED PLACEMENT
Graduation credit is not granted for secondary school courses in Russian, but students with secondary school Russian should take the Russian Department's local placement exam (*). Students who demonstrate sufficient knowledge will thereby satisfy the language requirement and be eligible for Russian 27; students whose knowledge is substantially greater will receive credit on entrance for Russian 27 and be eligible for Russian 28 or higher-level courses.

TRANSFER CREDIT
Students who wish to receive credit for college Russian courses taken prior to matriculation at Dartmouth should see the Chair of the Department of Russian early in the fall term.

SELECTED FALL TERM COURSES (RUSS)
1. First-Year Course in Russian
An introduction to Russian as a spoken and written language.

7. First Year Seminar: Who is the Terrorist?
The mid-nineteenth century witnessed the birth of a new “enemy of the human race” (hostis humani generis): the modern political terrorist. Almost simultaneously in Great Britain and Russia, individuals who were willing to kill and die for their political beliefs appeared as a force to be reckoned with and a figure of radical hostility and mystery. As we will see, the question “Who is the terrorist?” is more a riddle than a question and may be answered in many ways, depending ultimately on how we define terrorism. “Who is the terrorist?” asks what this fundamentally modern identity entails: what types of life experiences, psychological traits, beliefs, values, and choices make a “terrorist?” Or is a terrorist not made from the inside out, but from the outside in—through public institutions and discourses (juridical, psychiatric, news media, and literary)? Our transnational course explores this question through a variety of texts and films, including Albert Camus’ The Rebel, G. K. Chesterton’s The Man Who Was Thursday, Gilo Pontecorvo’s The Battle of Algiers, and James McTeigue’s V for Vendetta.

In this course, we will discuss a variety of genres from Russian folklore. As we move from the familiar genre of the riddle to the often mystifying beliefs and rituals of the ancient Slavs and then to the fairy tale, comfortably familiar from childhood, we will learn to not only recognize the richness and density of texts that may initially seem uncomplicated but also to discern the patterns and meanings behind the apparently exotic narratives and behaviors. By thoroughly studying one of the world's richest oral traditions, Slavic folk life and folklore, we will acquire the tools and techniques necessary for collecting, documenting, and interpreting folklore — which is perhaps the most truly international of all arts. The course is based on materials in Russian and East European cultures, but also draws from other traditions. Open to all classes. Dist: INT’L or LIT; WCult: W.

36. Seer of the Flesh: Leo Tolstoy's Art and Thought
Leo Tolstoy — novelist, religious thinker, pacifist, international celebrity — was also a great seer. This course will ask: what is the relationship of seeing to literary art? What distinguishes Tolstoy’s seeing from our own mundane vision? What do we see with his help that would otherwise remain hidden?
Sociology (SOCY)

Sociology enables us to understand how the dynamics of society affect and are shaped by individuals. It seeks first to describe the various forms of social structure which we all inhabit—groups, organizations, communities, social categories of class, sex, age, or race, and social institutions such as the economy, family, politics, and religion. Next, sociology seeks to explain how those structures affect patterns of human attitudes, behaviors, and opportunities, and simultaneously how individuals through collectivities construct, maintain, and alter social structure.

The curriculum of the Department of Sociology includes courses on social psychology and social change; organizations, and institutions; social movements and political sociology; and class, gender and race inequalities. Sociology offers a standard or modified major, a standard minor, and two specialized minors: Markets, Management and the Economy; and Social Inequality. Requirements for majors and minors are explained in the ORC and on our website: http://sociology.dartmouth.edu.

The following are recommended first-year courses (SOCY):

1. Introductory Sociology (F, S)
10. Quantitative Analysis of Social Data (F,W)
11. Research Methods (W)
15. Sociological Classics (F)
20. Population and Society (W)
26. Capitalism, Prosperity, and Crisis (S)
34. Health Disparities (W)
35. Sociology of Mental Health (F)
36. Sociology of Family (S)
46. Constructing Black Womanhood (S)
47. Race and Ethnicity (W)
49.18 Third World Revolutions (S)

SELECTED FALL TERM COURSE

1. Introductory Sociology

What is Society? How have societies developed historically? How do they distribute wealth, income and other resources? How do they organize political authority and economic power? How do they coordinate work? How do they socialize people to “fit in” with those around them? How do they produce popular culture? This course provides answers to these questions in ways that provide an introduction to the field of sociology. It focuses on a broad range of theory and research showing how sociologists think about and study these questions. In many cases, the topics covered in the course reflect the research interests and course offerings of faculty in the sociology department at Dartmouth. As a result, the course also provides an introduction to some of the curriculum offered in the department. Open to all classes. Dist: SOC; W Cult: W.

Spanish and Portuguese (SPAN) (PORT)
Spanish and Portuguese is a lively and bustling department located in Dartmouth Hall, the historic architectural center of the campus and the focal point for the study of foreign languages, literatures, and cultures. Students who take classes in our department not only acquire linguistic and cultural competence in Spanish and Portuguese but are also better equipped to face the new challenges posed to globalized citizens of the 21st century.

Spanish and Portuguese offers all levels of beginning language as well as advanced topical courses for intermediate and native speakers. These prepare students to understand important cultural, political and historical issues in the Spanish and Portuguese speaking worlds and enrich their critical thinking about national identities, gender, race, ethnicity, and migration in and outside the US.

We offer multiple off-campus programs in Buenos Aires, Cusco, Barcelona, Madrid, Santander, and São Paulo. We are also affiliated with the University of Havana. The majors offered are (a) Hispanic Studies, (b) Romance Studies, (c) Modified Major in Hispanic Studies, and (d) Modified Major in Lusophone Studies. The minors offered are in Hispanic Studies and Lusophone Studies (Literature and Culture of the Portuguese speaking world).

INTRODUCTORY LANGUAGE COURSES

PORTUGUESE (PORT)

Portuguese 1 and 2 furnishes the basic training to prepare for intermediate courses (Portuguese 20 on campus) or to go on our LSA+/FSP to São Paulo in Winter.

SPANISH (SPAN)

Three one-term introductory courses (Spanish 1, 2, and 3) furnish the basic training in language to satisfy the language requirement and to prepare for the intermediate courses (Spanish 9 and 20).

COURSE PLACEMENT

Which class should I take if I wish to continue with my studies in Spanish at Dartmouth College?

If I have taken the SAT II test:

0 – 410: Spanish 1
600 – 680: Spanish 2
690 or better: Spanish 9

If I have taken AP exams:

AP Language 4 or 5: Spanish 9
AP Literature 4: Spanish 9
AP Literature 5: Spanish 20

Students who scored 5 on the AP Literature exam receive one credit on entrance for Spanish 9.

If I have taken the British A Level exams:


If I have taken the IB exam: 6 or 7 on the higher-level IB exam: Spanish 20. Students receive one credit on entrance for Spanish 9.

Students who have not taken SAT II, AP, British A level, or IB exam scores must take the Department placement exam if they wish to continue with their Spanish studies at Dartmouth. The exam is offered online for incoming first-year students from August 1 – August 25. Upon completing the exam, the course for which you should register will be indicated. All students who place out of Spanish 3 on the local placement exam will be required to
Recommended Courses for First-Year Students

take an oral exam on campus during Orientation. There will be a make-up exam on October 16 only for students who missed the August 1 – 25 online exam. For more general information about language classes and the online exam (including password) see the department website. Students who have lived or studied abroad for more than 6 months should contact the Language Program Director for further placement information.

If you have studied Portuguese before coming to Dartmouth or have other experience with the language, you must take the Portuguese Placement Test (PPT) to be placed in the appropriate level class. The PPT consists of two parts: one written and one oral. The written part tests knowledge of grammar, reading comprehension, and writing composition. The written exam is followed by an interview that tests oral comprehension. It is offered in the fall and winter during the first week of classes. Students interested in taking the PPT should contact Professor Rodolfo Franconi or Professor Carlos Minchillo in order to take the test.

TRANSFER CREDIT
Transfer credit is not granted to incoming first-year matriculating students for Spanish and Portuguese language (1, 2, 3) courses taken at other colleges and universities before matriculation. For transfer credit for equivalent courses 9 and above email the Language Program Director (for Spanish) or Professor Rodolfo Franconi (for Portuguese).

SELECTED FALL TERM COURSES (SPAN)

1. Spanish I
   Introduction to spoken and written Spanish. Intensive study of introductory grammar and vocabulary with a focus on culture and communication. Oral class activities, readings and compositions. Weekly practice in the virtual language lab includes media, full-feature films and weekly drill sessions. Never serves in partial satisfaction of the Distributive or World Culture Requirements. Prerequisite: Spanish 2, or a Placement Test score over 475.

2. Spanish II
   Continuation of Spanish I. Further intensive study of grammar and vocabulary with a focus on culture and communication. Oral class activities, readings and compositions and continued practice in the virtual language laboratory. Weekly drill sessions. Never serves in partial satisfaction of the Distributive or World Culture Requirements. Prerequisite: Spanish 2, or a Placement Test score over 475.

3. Spanish III
   Continuation of Spanish 2. Spanish 3 provides additional, intensive study of grammar and vocabulary with a focus on literature and culture. Oral class activities, readings and compositions and continued practice in the virtual language laboratory. Weekly drill sessions. Completion of this course on campus or as part of the LSA constitutes fulfillment of the language requirement. Never serves in partial satisfaction of the Distributive or World Culture Requirements. Prerequisite: Spanish 2, or a Placement Test score over 475.

9. Culture and Conversation: Advanced Spanish Language
   This course serves as a bridge between Spanish 3 and Spanish 20. Through the intensive study of a variety of media (e.g. documentaries, TV programs, podcasts, films), grammar, vocabulary, and speech acts as presented in the course packet, students will actively practice listening and speaking, and hone their writing skills with the goal of reaching an Intermediate High Level on the ACTFL scale. Topics and materials may vary each term. Prerequisite: Spanish 3; score of 690 or better on the SAT II test; AP Lang 4 or 5, or AP Lit 4; Placement Test score over 600; or permission of the instructor. It serves as a prerequisite for the LSA+ program or for Spanish 20.

20. Writing and Reading: A Critical and Cultural Approach
   Spanish 20 is the first course of the Major/Minor and serves as transition between the skills acquired through the Spanish languages courses (Spanish LSA or equivalent preparation) and those needed for all upper-division courses (30 and above). Through the study of critical and theoretical vocabulary, and the reading of short stories, poems, films, theatrical plays, and journalistic articles, students will acquire analytic tools to comprehend and analyze several types of texts. This course is also designed to familiarize students with different textual genres and a wide array of literary and interpretative key concepts. Prerequisite: Participation in one of the Spanish LSA programs; Spanish 9 or 15; exemption from Spanish 9 or 15 based on test scores (see Department website); or permission of instructor. Spanish 20 may be taken in conjunction with 30-level survey courses. It serves as a prerequisite for all Spanish courses 40 and higher. Dist: LIT.

Studio Art (SART)
The Department of Studio Art provides students the opportunity to participate in a studio program within the liberal arts context. Classes are taught by well-established artists, whose work is exhibited throughout the U.S. and abroad. Students have full use of large, well-equipped studio facilities. Course offerings include all levels of: architecture, drawing, painting, photography, printmaking and sculpture. Classes are open to all Dartmouth undergraduates, but are limited in size to encourage individual expression and close personal interaction between faculty and students.

Senior majors are encouraged to focus in one or two areas of concentration for their culminating experience. Many establish themselves in art related careers after graduation. Sculpture I, Drawing I, Photo I, Printmaking I and Special Topics DO NOT have a prerequisite, and no prior knowledge of any of these courses is required.

The following courses are recommended for first-year students (SART):

15. Drawing I
   In this introductory course, major and non-major students will explore the issues of mark, line, scale, space, light, and composition. Students will develop their own critical ability as well, enabling them to discuss the work presented in class. Although the majority of work will be from the observed form, such as still life and the human figure, non-observational drawing will also be emphasized. Various kinds of charcoal, ink, and pencil will be the primary media used. Supplemental course fee required. Dist: ART.

16. Sculpture I
   The emphasis of this course is to make and critique sculpture. Three-dimensional design concepts and various elements of sculpture such as form, space, surface, and time, will be discussed. Students will develop an understanding of different materials and techniques in conjunction with the aesthetics of each medium. This course focuses on an individual approach to creative problem solving, with students developing skills and art terminology to critique their own sculpture and that of others. Supplemental course fee required. Dist: ART.

17.08. Special Topics: Digital Drawing
   This class will explore the connections of hand drawing and digital drawing to create original images. Students will explore the implications, opportunities and technical issues of using the computer as a drawing tool and combine computer-generated drawings with those done by hand. Drawings may combine layering, collaging and converting 3D form to 2D hand drawings using Photoshop, Illustrator and Rhino software, among others. Supplemental course fee required. Dist: ART.

29. Photography I
   An introductory course concentrating on the fundamentals of operating and understanding a camera: black and white film processing and printmaking techniques, and the use of the camera as a tool of creative expression. Assignments in landscape, portraiture, and still life will be used to introduce a broad range of photographic problems. Supplemental course fee required. Dist: ART.

27. Printmaking I
   Basic techniques of printing images from metal plates, and often from cardboard and plastic plates as well. Once a plate is developed, it can be printed many times and in many different ways. Several plate-making and printing techniques will be taught, enabling students to achieve a wide range of imagery through line dynamics, tonal variety, and color.
Take time to read the course descriptions. Reflect, consider options and opportunities, and allow different facets of your experience and personality to impact your course choices.

The following courses are recommended for first-year students (THEA):

1. Introduction to Theater (F)
2. 10. Special Topics in Theater (F, W, S)
15. Theater and Society I: Classical and Medieval Performance (F)
16. Theater and Society II: Early Modern Performance (W)
17. Theater and Society III: 19th and 20th Century Performance (S)
21. Race, Gender, and Performance (W)
22. Black Theater, USA (F)
24. Asian Performance Traditions (S)
26. Movement Fundamentals I (F)
27. Acting I (F, W, S)
28. Speaking Voice for the Stage (W)
29. Technical Production (F, W, S)
30. Stage Management (W)
31. Lighting Design I (W)
32. Costume Design I (F)
33. Playwriting I (F, S)
35. Directing I (S)

**SELECTION FALL TERM COURSES (THEA)**

1. Introduction to Theater
   - As a set of staged practices rich with social context, theater has sought to document, engage, and affect communities. This course introduces and explores theater from page to stage as a live performing art. Topics include the relationship between theater and society (historical and contemporary), dramatic structure, theatrical representation, and the crafts of theater artists such as directors, designers, playwrights, and actors. We will also engage with live performances and video archives of past performances. Dist: ART.

15. Theatre and Society I: Classical and Medieval Performance
   - This course explores selected examples of world performance during the classical and medieval periods in Western Europe and eastern Asia. Plays to be discussed might include those by Aeschylus, Sophocles, Euripides, Aristophanes, Seneca, Plautus, Terence, and Zeami. Through the reading and discussion of primary and secondary texts, we seek to situate selected performance texts within their sociopolitical and artistic contexts. Dist: ART or INT; WCult: CI.

22. Black Theater, U.S.A.
   - This course will examine African American playwrights, drama, and theater from 1959 to the present. Further exploration will focus on the impact of civil rights, the Black Arts movement, and cultural aesthetics on the form, style, and content of African-American plays. Readings will include plays by Hansberry, Baldwin, Baraka, Kennedy, Childress, Shange, Wolfe, Wilson, Parks and others. Dist: ART; WCult: CI.

26. Movement Fundamentals I
   - An introduction to movement for the stage, this course will animate the interplay between anatomy, movement theories, and performance. Through exploration of physical techniques, improvisation, and movement composition, students will experience a fundamental approach to using the body as a responsive and expressive instrument. Assignments will include readings, written work, class presentations, midterm exam, and final paper. Dist: ART.

30. Acting I
   - This course is a basic introduction to acting technique for the stage. The course is designed to develop the ability to play dramatic action honestly and believably, using realistic/naturalistic material as well as self-scripted autobiographical writing. Course work includes exercises and improvisations, monologues and scene work. Out-of-class assignments include required readings from acting texts and plays, attendance at local stage productions, rehearsals, and journal writing. Admission to this course is by instructor permission; instructor interviews will take place on the first day of classes to determine enrollment. Dist: ART.

40. Technical Production
   - This course is an introduction to the technical aspects of scenic and property production, exploring traditional and modern approaches. Topics include drafting, materials and construction, stage equipment, rigging, and health and safety. The course consists of lectures and production projects. Open to all students. Dist: ART.

48. Costume Design
   - An introductory course in the appreciation of the costume design process as part of the dramatic production. Through weekly projects, students will study the principles of line, texture, and color as well as the history of costume from the Renaissance through the eighteenth century. Class includes lectures, design projects, and critiques. Dist: ART.

50. Playwriting I
   - The aim of this course is for each student to write the best one-act play she or he is capable of writing. This undertaking will involve a number of preliminary exercises, the preparation of a scenario, the development of the material through individual conferences and finally the reading and discussion of the student’s work in seminar sessions. The course is limited in size and requires the permission of the instructor. Preregistration is not permitted. Dist: ART.

**Women’s, Gender, and Sexuality Studies (WGSS)**

The Women’s, Gender, and Sexuality Studies Program at Dartmouth College, the first such program in any of the previously all-male Ivy League colleges, offers multidisciplinary and cross-cultural courses...
on gender and gender-related issues. Our program faculty includes over 70 faculty members drawn from the Arts and Humanities, Social Sciences, and Sciences. The Women's, Gender, and Sexuality Studies Program enriches the traditional liberal arts curriculum by celebrating the multiplicity of gender and sexual identity (male, female, gay, lesbian, transgender, etc.) and by helping students understand how gender and sexuality intersect with other social markers like those of class, race, and ethnicity.

Courses in WGSS are rich and diverse, as faculty share their cutting-edge research on topics such as identity formation, power and politics, knowledge formation, gender and the visual arts, family and community, gender and economic development, gender and health, etc. In partnership with the Asian Societies, Cultures, and Languages Program, we offer an annual Foreign Study Program in Hyderabad, India. Most courses are open to all students and may be taken for elective credit, as part of the Women's, Gender, and Sexuality Studies Major, Minor, Modified Major or to satisfy distributive requirements.

SELECTED FALL TERM COURSE (WGSS)

10. Sex, Gender, and Society
How has current thinking about sex, gender, and sexuality formed our experiences and understandings of ourselves, the world we inhabit, and the world we envision? This course investigates basic concepts about sex, gender, and sexuality and considers how these categories intersect with issues of race, class, ethnicity, family, religion, age, and/or national identity. The course also considers the effects of sex, gender, and sexuality on participation in the work force and politics, on language, and on artistic expression. In addition to reading a range of foundational feminist texts, materials for analysis may be drawn from novels, films, the news, popular culture, and archival resources. Open to all students. Dist: SOC; WCult: CI.

Writing and Rhetoric:
The Institute for Writing and Rhetoric
The Institute for Writing and Rhetoric at Dartmouth College oversees first-year writing courses (Writing 2-3, Writing 5, and the First-Year Seminars taught in departments and programs throughout the College); upper-level courses in Writing courses in Speech; and student support services through RWRT (The Student Center for Research, Writing, and Information Technology). Dartmouth’s first-year writing courses prepare students to engage fully with their intellectual work in every discipline. In order to provide a solid foundation for that work, Dartmouth requires first-year students to take Writing 5 (or its two-term equivalent, Writing 2-3) and a First-Year Seminar. Humanities 1-2 may be taken as another way of fulfilling the first-year writing requirement. For details, see www.dartmouth.edu/~hum1-2.

PLACEMENT PROCESS FOR WRITING 2-3 AND WRITING 5
In a separate mailing in early June, details and instructions are sent to invited students regarding the online directed self-placement process for writing courses. This web-based process has been designed to allow students who might benefit from a two-term writing course to have their writing evaluated and to receive a recommendation about whether to take Writing 2-3 or Writing 5.

Students who did not receive an invitation by June 10 to complete the online placement process but feel that they would benefit from taking the Writing 2-3 course should contact the Institute for Writing and Rhetoric at Dartmouth as soon as possible by email: writingtwothree@dartmouth.edu.

Students who complete the online writing placement process and accept placement into Writing 2-3 will be preregistered for Writing 2 when they arrive on campus in the fall. Students who take the Writing 2-3 sequence take their First-year Seminar in the spring term.

Students who are not invited to participate in the online directed self-placement process for writing courses will take Writing 5 (or Humanities 1). Students taking Writing 5 are assigned to take the course in either the fall or the winter; this assignment cannot be changed. Information about when a student is scheduled to take Writing 5 appears in the online student placement record visible to students and their advisors just prior to fall course registration. Students taking Writing 5 in the fall will register for Writing 5 when they register for their other fall courses. See our website for further information about placement and registration: http://dartmouth.edu/writing-speech/curriculum/placement-and-enrollment-policies.

TRANSFER CREDIT
Transfer students may request approval of transfer credit for Writing 5, upper-level Writing courses, or Speech courses based on courses taken at other colleges or universities before matriculation at Dartmouth. The deadline for all requests for credit is the end of the first term of study.

SELECTED FALL TERM COURSE (WGSS)

20. Public Speaking
This two-term course in first-year composition proceeds on the assumption that excellence in writing arises from serious intellectual engagement. Students engage in intensive study of literary and other works (including their own and each other’s writing), with attention to substance, structure, and style. The primary goal of Writing 2 is for students to learn to write clearly and with authority. By submitting themselves to the rigorous process of writing, discussing, and rewriting their papers, students come to identify and then to master the essential properties of the academic argument. In Writing 3, students engage in the more sustained discourse of the research paper. These papers are not restricted to literary criticism but might employ the research protocols of other academic disciplines. Throughout the reading, writing, and research processes, students meet regularly with their tutors and instructors, who provide them with individual assistance.

Writing 2-3 is taken in place of Writing 5. Students must successfully complete both terms of Writing 2-3 and a First-Year Seminar to fulfill the first-year writing requirement. Writing 2-3 does not serve in partial satisfaction of the Distributive Requirement.

5. Expository Writing
Founded upon the principle that thinking, reading, and writing are interdependent activities, Writing 5 is a writing-intensive course that uses texts from various disciplines to afford students the opportunity to develop and hone their abilities in expository argument. Instruction focuses on strategies for reading and analysis and on all stages of the writing process. Students actively participate in discussion of both the assigned readings and the writing produced in and by the class.

Students must successfully complete Writing 5 (or Writing 2-3) and a First-Year Seminar in order to fulfill the first-year writing requirement. This course does not serve in partial satisfaction of the Distributive Requirement.

SPEECH (SPEE)

20. Public Speaking
This course covers the theory and practice of public speaking. Building on ancient rhetorical canons while recognizing unique challenges of contemporary public speaking, the course guides students through topical selection, organization, language, and delivery. Working independently and with peer groups, students will be actively involved in every step of the process of public speaking preparation and execution. Assignments include formal speeches (to inform, to persuade, and to pay tribute), brief extemporaneous speeches, speech analyses, and evaluations. No prerequisites. Limited enrollment. Dist: ART.
Preparation for Health Professions

The Health Professions Program (HPP) is Dartmouth’s four-year pre-health advising program for students interested in health professions. We help you navigate the rigorous path of academic, experiential, and personal growth while you explore and prepare for a health profession (medical, veterinary, dental, nursing, etc.). We offer one-on-one advising, group workshops, a peer-mentor program, and many other opportunities. www.dartmouth.edu/prehealth/

Make sure to attend the important pre-health advising programs during New Student Orientation. Meet with your pre-health advisors as soon as possible after arriving, throughout your first year, and beyond. Use our weekly Walk In Hours or make an appointment to meet with us. Your pre-health advisors will assist you with: course election; learning and study strategies; personalizing your D-Plan; determining your unique timing and choices; supporting self-assessment and self-reflection; experiences outside the classroom; and guiding you in the actual health profession school application.

The pre-health journey is also experiential. Participate in Dartmouth’s local shadowing program, receive guidance for finding undergraduate research and internship opportunities; and attend workshops that help you clarify your goals, meet your peer pre-health community and learn about the pre-health process.

What is especially useful to know to get started?
There is not a “one size fits all” path. Everyone arrives with different math and science backgrounds and levels of clarity about their aspiration. Some take a term or two to adjust to the pace of college, review or learn essential foundations, or just explore other interests. Some are ready to dive into a science course first term.

A strong foundation in algebra and at least some knowledge of calculus upon matriculating is very useful for pre-health prerequisite classes. We advise students with a pre-health aspiration to begin learning or to review this material over the summer even if you have already taken calculus. Get acquainted with, or review, your chemistry and biology concepts. There is great (free) material online at www.khanacademy.org/ or www.shodor.org/unchem/index.html. A summer community college class is another option, as are free courses on Coursera.

Although there are different paths and timelines to consider, pre-health coursework takes planning, as you will see as you read through the requirements at the end of this section; speak with a pre-health advisor as early as possible.

Does my major matter?
No. There is no “pre-health” major at Dartmouth; you are a Dartmouth liberal arts student. Medical schools care that you develop a love of learning, and depth of knowledge in your area of focus. Humanities, Sciences, and Social Sciences majors are all just as likely to be strong candidates for a health profession if they are otherwise qualified and successful in the science prerequisites. With planning, and assistance, it can fit together. Your HPP advisors are here to support that journey.

When do people apply to a health professions school?
Eighty percent of students who apply to a medical, dental, or veterinary school from Dartmouth apply the summer after they graduate or in future years (as alumni/ae). This means one or more “gap” years. This allows at least four years to take the prerequisite courses, develop as a person, and prepare for the MCAT. The average age of a student entering medical school is currently 24 or older which implies (at least) one year between graduation and medical school. Students find jobs for that “gap year(s)” during their senior year. If you plan to attend medical school immediately after graduation, you will apply early summer at the end of junior year.

How do I gain new strategies for success in pre-health classes?
It is quite normal to need to develop effective new studying and learning strategies as you grow as a student. Open your mind to studying differently: get great tips on learning strategies from HPP; the Academic Skills Center, Undergraduate Deans Office your peers, your Teaching Science Fellows, and from faculty.

SEE THE FOLLOWING INFORMATION FOR CURRENT PRE-HEALTH REQUIREMENTS FOR MOST HEALTH PROFESSIONS SCHOOLS (INCLUDING MOST VETERINARY AND DENTAL).

Please Note: We strongly discourage students from doubling up on lab classes in the first year; it is norm to take one lab class at a time. We encourage students to adapt to science at Dartmouth and then decide what is right for them.

Subject: English (ENGL) - 2 courses. AT DARTMOUTH: First-year Seminar and Writing 5 (or Writing 2-3) fulfills this requirement.

Subject: Biology (BIO) - 2 courses with lab. AT DARTMOUTH: Foundation courses include 12, 13, 14, 15, and 16. Most students choose Bio 12, 13, and 14 to be best prepared for a future MCAT and medical/dental or vet school, however a student could choose from 15, and 16 as well. To help students determine if they are sufficiently prepared to enter a foundation course directly, the Biology department has established an online self-assessment exam for students. Either Bio 11 or Bio 2 are a good entry into Biology at Dartmouth, depending on student’s previous background. Speak with the pre-health advisors regarding your best path through Biology preparation.

Subject: Chemistry (CHEM) - 2 courses Gen Chem with lab; and 2 terms Organic Chem with lab. AT DARTMOUTH: Calculus (Math 3) is a prerequisite for Gen Chem. Gen Chem: Chem 5 and 6. With a more advanced background (AP, IB) one might exempt out of one or both classes; however, one must still take a general Chem class at the college level. Gen Chem 10 is an alternate course for students with advanced standing. Organic Chem: Chem 51 and 52. For students who have more advanced knowledge or intend to major in chemistry, the Chem 57 and 58 sequence is typical. Students with little or no chemistry background should strongly consider doing chemistry prep the summer before arriving at Dartmouth or summer after their first year.

Subject: Biochemistry - 1 course. AT DARTMOUTH: Bio 40 or Chemistry 41. These courses require Organic Chem as a prerequisite. Biology 40 requires Biology 12 as a prerequisite.

Subject: Physics (PHYS) - 2 courses of general Physics with lab. AT DARTMOUTH: General Physics: Physics 3 and 4 (or Physics 13 and 14 for Chemistry, Engineering, or Physics majors). These courses have Calculus 3 prerequisite. With a more advanced background (AP, IB) one might exempt out of one or both classes or be invited to Honors 15/16 (your choice whether to do so or not). However, one must still take a general Physics class at the college level.

Subject: Mathematics (MATH) - 1 term of Calculus and 1 term of Statistics. AT DARTMOUTH: Calculus: Math 3 or equivalent. Introduction to Calculus is a prerequisite to several courses in Biology, Chemistry or Physics. For purposes of pre-health requirements at this time, the equivalent of Math 3 (via exemption, or Math 1 and 3) is sufficient as long as one Math class (which can be Statistics) is taken at the college level. Statistics: Any Statistics course numbered 10 in Psychology, Sociology, Economics, Government, or Mathematics; Biology 29 (Biostatistics); Math 10; and Social Sciences 15: Intro to Data Analysis.

Other Courses for MCAT Preparation:
Psychology and Sociology: While these are not yet prerequisites for most health professions schools, one or both is highly recommended; regardless, preparation will be necessary for an MCAT. If you choose to prepare at Dartmouth, Psych 1 will give you much of the Psychology material you need and Sociology 1 or a health-related Sociology course could give you the material you need. Consult with your pre-health advisors; there may be other ways to learn this material at Dartmouth, or on your own.
We intentionally chose these questions and prompts to inspire you to reflect on your intentions, and prepare for the transition from high school and secondary school to Dartmouth.

Use this worksheet as a starting point and refer back to it often! Bring your EXPLORE, ENGAGE, EXCEL and the completed worksheet to meetings with your Undergraduate Dean, your Faculty Advisor, other mentors, and peer advisors.

The primary purpose of Local Placement Exams is to ensure that you are taking courses appropriate to your level of preparation. It is strongly recommended that you take them when there is a question of placement or if you are wondering where to begin with a particular academic sequence.

**LOCAL PLACEMENT EXAMS YOU PLAN TO TAKE DURING ORIENTATION:**

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**WHAT MAKES YOU UNCERTAIN ABOUT ACADEMIC SUCCESS?**

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**WHAT WILL HELP YOU SUCCEED ACADEMICALLY AT DARTMOUTH?**

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**USING THIS GUIDE, LIST THE COURSES THAT INTRIGUE YOU.**

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**WHEN THINKING ABOUT THE ADJUSTMENTS NEEDED** to transition from high school to college learning, it helps to consider what skills you bring with you, and the areas in which you might need additional support.

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BEGIN YOUR JOURNEY...
CONSIDER THESE THINGS WHEN CHOOSING COURSES FOR YOUR FIRST YEAR:

1) Take classes that EXPLORE academic interests (leave room for new, old, and unrealized opportunities of academic connection).

2) Distributive Requirements: We encourage you to choose distributive requirements with purpose and clear goals. We discourage you from choosing a class that just “checks off” a distributive requirement. These requirements are NOT intended to be completed in the first two years or prior to beginning a major.

3) First-year Writing Requirement: Be sure to allow space for these required courses during your first year. For details see pages four and five of this publication and https://writing-speech.dartmouth.edu/curriculum/placement-and-enrollment-policies.

4) The Language Requirement: When to start? Will you complete it using language course numbers 1-2-3? Are you thinking about finishing your language requirement with a Language Study Abroad program (LSA/LSA+)?

5) Pay attention to course sequencing and plan for prerequisite courses—especially for pre-health requirements, an off-campus program, or a potential major.

6) Remember: You do not need to take a course just because you were placed into the course.

WHAT ACADEMIC AND CO-CURRICULAR OPPORTUNITIES EXCITE YOU AS YOU IMAGINE YOUR FIRST YEAR AT DARTMOUTH?

Make sure to consider co-curricular opportunities, classes, clubs, campus jobs, getting to know faculty, and skills to develop.

POTENTIAL FIRST-YEAR COURSES

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New Student Orientation

**SEPTEMBER 5 – 11**

Fall Term Classes Begin

**SEPTEMBER 12**

Fall Term Classes End

**NOVEMBER 13**

Fall Term Examinations

**NOVEMBER 16 - 21**

Residence Halls Close at Noon

**NOVEMBER 21**

Residence Halls Open

**JANUARY 2**

Winter Term Classes Begin

**JANUARY 3**

Winter Term Classes End

**MARCH 6**

Winter Term Examinations

**MARCH 9 - 13**

Residence Halls Close at Noon

**MARCH 14**

Residence Halls Open

**MARCH 23**

Spring Term Classes Begin

**MARCH 25**

First-Year Family Weekend

**MAY 3 - MAY 5**

Spring Term Classes End

**MAY 29**

Spring Term Examinations

**MAY 31 – JUNE 4**

Residence Halls Close at Noon

**JUNE 5**

THIS BULLETIN HAS BEEN PREPARED FOR THE BENEFIT OF INCOMING STUDENTS.

The officers of the College believe that the information contained herein is accurate as of the date of publication (June 2018).

However, Dartmouth reserves the right to make from time to time such changes in its operations, programs, and activities as the trustees, faculty, and officers consider appropriate and in the best interests of the Dartmouth community.

This publication can be made available in alternative media. Contact the Undergraduate Deans Office (see below).

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