First Term Enrollment

Course Descriptions

Fall 2015
# Course Prefixes

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<td>AAS</td>
<td>African American Studies</td>
<td>KOR</td>
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<td>ANT</td>
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<td>ARB</td>
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<td>LIN</td>
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<td>AST</td>
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<td>BIO</td>
<td>Biology</td>
<td>LLA</td>
<td>Law in the Liberal Arts</td>
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<td>CAS</td>
<td>College of Arts and Sciences</td>
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<td>CHE</td>
<td>Chemistry</td>
<td>MAX</td>
<td>Maxwell</td>
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<td>CHI</td>
<td>Chinese</td>
<td>MES</td>
<td>Middle Eastern Studies</td>
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<td>COM</td>
<td>Communications</td>
<td>NAT</td>
<td>Native American Studies</td>
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<td>CSD</td>
<td>Communication Sciences &amp; Disorders</td>
<td>PAF</td>
<td>Public Affairs</td>
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<td>EAR</td>
<td>Earth Sciences</td>
<td>PHI</td>
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<td>ECN</td>
<td>Economics</td>
<td>PHY</td>
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<td>ETS</td>
<td>English &amp; Textual Studies</td>
<td>POL</td>
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<td>French</td>
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<td>HOA</td>
<td>History of Art</td>
<td>SAS</td>
<td>South Asian Studies</td>
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<td>HOM</td>
<td>History of Music</td>
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<td>Sociology</td>
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<td>History</td>
<td>SPA</td>
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<td>ITA</td>
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<td>JPS</td>
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Required Course

COM 107  **Communications and Society (3 credits)**  
Mass media and their functions. Contemporary problems of the media: legal, social, economic, and psychological implications of their relationships with society. Required of all students in the school.

**FOREIGN LANGUAGE COURSES**

To study **French, German, Hebrew, Italian, or Spanish**, you must complete the online Placement Exam which will indicate the appropriate class level for registration. You must take the exam even if you have not studied the language previously so that you may fill out the information on the test which will place you into the beginning course. We cannot register you for these languages without a language placement. To take one of the online foreign language placement exams go to MySlice.syr.edu and click on the following links: Student Services > Placement Exams > Take Placement Exam. Or you may link to the exam from your Course Selection Form on page 1.

Placement tests for **other languages** will be offered in person during Opening Weekend. You may select from the courses listed below.

Please note extension IDs must be included for some levels of Spanish.

**ARB 101  Arabic I (4 credits)**  
Proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Arabic. No prior experience or admission by placement testing. Students cannot enroll in ARB 101 after earning credit for ARB 102, ARB 201, or ARB 202 or higher.

**ARB 201  Arabic III (4 credits)**  
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Arabic. Prerequisite: ARB 102 or admission by placement testing. Students cannot enroll in ARB 201 after earning credit for ARB 202 or higher.

**CHI 101  Chinese I (4 credits)**  
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Chinese. No prior experience or admission by placement testing. Students cannot enroll in CHI 101 after earning credit for CHI 102, CHI 201, CHI 202 or higher.

**CHI 102  Chinese II (4 credits)**  
Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts.
Activities are conducted in Chinese. Prerequisite: CHI 101 or admission by placement testing. Students cannot enroll in CHI 201 after earning credit for CHI 202 or higher.

**CHI 201 Chinese III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Chinese. Prerequisite: CHI 102 or admission by placement testing. Students cannot enroll in CHI 201 after earning credit for CHI 202 or higher.

**CHI 202 Chinese IV (4 credits)**
Continuing proficiency-based course which further refines and expands linguistic skills in culturally authentic contexts. Incorporates reading, discussing, and analyzing texts as a basis for the expression and interpretation of meaning. Conducted in Chinese. Prerequisite: CHI 201 or admission by placement testing. Students cannot enroll in CHI 202 after earning credit for a course higher than CHI 202.

**FRE 101 French I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in French. No prior experience or admission by placement testing. Students cannot enroll in FRE 101 after earning credit for FRE 102, FRE 201, or FRE 202 or higher.

**FRE 102 French II (4 credits)**
Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in French. Prerequisite: FRE 101 or admission by placement testing. Students cannot enroll in FRE 102 after earning credit for FRE 201, FRE 202 or higher.

**FRE 201 French III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in French. Prerequisite: FRE 102 or admission by placement testing. Students cannot enroll in FRE 201 after earning credit for FRE 202 or higher.

**FRE 202 French IV (4 credits)**
Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in French. Prerequisite: FRE 201 or admission by placement testing. Students cannot enroll in FRE 202 after earning credit for a course higher than FRE 202.
GER 101  **German I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in German. No prior experience or admission by placement testing. Students cannot enroll in GER 101 after earning credit for GER 102, GER 201, or GER 202 or higher.

GER 201  **German III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in German. Prerequisite: GER 102 or admission by placement testing. Students cannot enroll in GER 201 after earning credit for GER 202 or higher.

GRE 101  **Ancient Greek I (4 credits)**
Introductory course which prepares students to acquire a reading knowledge of Classical Attic Greek, focusing on morphology and syntax, and its role in the culture and literature of ancient Greek society. No prior experience or admission by placement testing. Students cannot enroll in GRE 101 after earning credit for GRE 102, GRE 201, or GRE 202 or higher.

HEB 101  **Hebrew I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hebrew. No prior experience or admission by placement testing. Students cannot enroll in HEB 101 after earning credit for HEB 102, HEB 201, or HEB 202 or higher.

HEB 201  **Hebrew III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hebrew. Prerequisite: HEB 102 or admission by placement testing. Students cannot enroll in HEB 201 after earning credit for HEB 202 or higher.

HIN 101  **Hindi/Urdu I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Hindi/Urdu. No prior experience or admission by placement testing. Students cannot enroll in HIN 101 after earning credit for HIN 102, HIN 201, or HIN 202 or higher.

HIN 201  **Hindi/Urdu III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Hindi/Urdu. Prerequisite: HIN 102 or admission by placement testing. Students cannot enroll in HIN 201 after earning credit for HIN 202 or higher.
ITA 101  **Italian I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Italian. No prior experience or admission by placement testing. Students cannot enroll in ITA 101 after earning credit for ITA 102, ITA 201, or ITA 202 or higher.

ITA 102  **Italian II (4 credits)**
Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Activities are conducted in Italian. Prerequisite: ITA 101 or admission by placement testing. Students cannot enroll in ITA 102 after earning credit for ITA 201, ITA 202 or higher.

ITA 201  **Italian III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Italian. Prerequisite: ITA 102 or admission by placement testing. Students cannot enroll in ITA 201 after earning credit for ITA 202 or higher.

ITA 202  **Italian IV (4 credits)**
Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in Italian. Prerequisite: ITA 201 or admission by placement testing. Students cannot enroll in ITA 202 after earning credit for a course higher than ITA 202.

JPS 101  **Japanese I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Japanese. No prior experience or admission by placement testing. Students cannot enroll in JPS 101 after earning credit for JPS 102, JPS 201, or JPS 202 or higher.

JPS 201  **Japanese III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Japanese. Prerequisite: JPS 102 or admission by placement testing. Students cannot enroll in JPS 201 after earning credit for JPS 202 or higher.

KOR 101  **Korean I (4 credits)** Not available in Fall 2015

KOR 201  **Korean III (4 credits)** Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Korean. Prerequisite: KOR 102 or admission by placement testing. Students cannot enroll in KOR 201 after earning credit for KOR 202 or higher.
LAT 101  **Latin I (4 credits)**  
Introductory course which prepares students to acquire a reading knowledge of classical Latin, focusing on morphology and syntax, and its role in the culture and literature of ancient Roman society. No prior experience or admission by placement testing. Students cannot enroll in LAT 101 after earning credit for LAT 102, LAT 201, or LAT 202 or higher.

LAT 201  **Latin III (4 credits)**  
Continuing course with review of morphology and syntax and further study of idioms, rhetorical figures, and syntactic peculiarities. Reading and study of representative prose authors. Prerequisite: LAT 102 or admission by placement test. Students cannot enroll in LAT 201 after earning credit for LAT 202 or higher.

POL 101  **Polish I (4 credits)**  
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Polish. No prior experience or admission by placement testing. Students cannot enroll in POL 101 after earning credit for POL 102, POL 201, or POL 202 or higher.

POR 101  **Portuguese I (4 credits)**  
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Portuguese. No prior experience or admission by placement testing. Students cannot enroll in POR 101 after earning credit for POR 102, POR 201, or POR 202 or higher.

POR 201  **Portuguese III (4 credits)**  
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Portuguese. Prerequisite: POR 102 or admission by placement testing. Students cannot enroll in POR 201 after earning credit for POR 202 or higher.

PRS 101  **Persian (4 credits)**  not offered in Fall 2015

RUS 101  **Russian I (4 credits)**  
Introductory proficiency-based course which prepares students to understand, speak, read and write in culturally authentic contexts. Activities are conducted in Russian. No prior experience or admission by placement testing. Students cannot enroll in RUS 101 after earning credit for RUS 102, or RUS 201, or RUS 202 or higher.

RUS 201  **Russian III (4 credits)**  
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Russian. Prerequisite: RUS 102 or admission by placement testing.
testing. Students cannot enroll in RUS 201 after earning credit for RUS 202 or higher.

**SPA 101 Spanish I (4 credits)**
Introductory proficiency-based course which prepares students to understand, speak, read, and write in culturally authentic contexts. Activities are conducted in Spanish. No prior experience or admission by placement testing. Students cannot enroll in SPA 101 after earning credit for SPA 102, SPA 201, or SPA 202 or higher.

**SPA 102 Spanish II (4 credits)**
Continuing proficiency-based course which develops communicative abilities in speaking, listening, reading, and writing in culturally authentic contexts. Prerequisite: SPA 101 or admission by placement testing. Activities are conducted in Spanish. Students cannot enroll in SPA 102 after earning credit for SPA 201, SPA 202 or higher.

**SPA 201 Spanish III (4 credits)**
Continuing proficiency-based course which refines and expands previously acquired linguistic skills in culturally authentic contexts. Activities are conducted in Spanish. Prerequisite: SPA 102 or admission by placement testing. Students cannot enroll in SPA 201 after earning credit for SPA 202 or higher.

**SPA 202 Spanish IV (4 credits)**
Continuing proficiency-based course which focuses on reading, discussing, and analyzing authentic texts as a basis for the expression and interpretation of meaning. Conducted in Spanish. Prerequisite: SPA 201 or admission by placement testing. Students cannot enroll in SPA 202 after earning credit for a course higher than SPA 202.

**SWA 101 Kiswahili I (4 credits)** not offered in Fall 2015

**TRK 101 Turkish I (4 credits)** Proficiency-based course which prepares students to understand, speak, read and write in culturally authentic contexts. Activities are conducted in Turkish. No prior experience or admission by placement testing. Students cannot enroll in TRK 101 after earning credit for TRK 102, TRK 201, or TRK 202 or higher.
**Writing Requirement**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Extension ID</th>
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<tr>
<td>CAS 100</td>
<td><strong>First-Year Writing Seminar in Arts and Sciences (3 credits)</strong></td>
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<td>This course fulfills the Newhouse Basic Writing Requirement. Topics for</td>
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<td>this course vary and are listed below. Each topic has an <strong>Extension ID</strong></td>
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<td>which must be included on your Course Selection Form so that we know</td>
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<td>which topics interest you.</td>
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<tr>
<td>CAS 100</td>
<td><strong>Food and Bodies</strong></td>
<td>A01</td>
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<td></td>
<td>We obsess over food, particularly about the relationship between our diets</td>
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<td>and our bodies. This obsession is not new, and it has changed dramatically</td>
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<td>over time. This course focuses on the historical and contemporary</td>
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<td>relationships between food and bodies, drawing on both scientific and</td>
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<td>cultural ideas about eating. It also examines the ways that companies have</td>
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<td></td>
<td>deployed ideas about diets and bodies to influence what people eat.</td>
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<td>CAS 100</td>
<td><strong>Global Consumer Ethics</strong></td>
<td>A02</td>
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<td>You probably already know that your shirt came from Honduras, your jeans</td>
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<td>from Bangladesh, your chocolate from the Ivory Coast, and your wine from</td>
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<td>South Africa, but what does that mean for you or for the people in these</td>
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<td>countries? This course combines philosophy with politics and economics to</td>
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<td>explore the effects of our consumer choices and our global responsibilities.</td>
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<td>Discussing both abstract topics, like cosmopolitanism and free trade, and</td>
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<td>concrete topics, such as sweat shops, agricultural working conditions, and</td>
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<td>the effects of greenhouse gas pollution, debate topics will include: Are</td>
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<td>corporations necessarily bad? Does globalization help to pull a country out</td>
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<td>of poverty? Is it better to &quot;buy local&quot;? Can consumer boycotts help working</td>
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<td>conditions? Will self-interested choices lead to the best outcomes in the end?</td>
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<td>Students develop more successful writing process skills through drafting and</td>
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<td>revising three essays, as well as shorter practice pieces.</td>
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<td>CAS 100</td>
<td><strong>Imagining Technology in the Past, Present, and Future</strong></td>
<td>A03</td>
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<td>While new technologies are exciting, imagining the next technology is</td>
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<td>perhaps even more exciting. Sometimes our imaginations of the future are</td>
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<td>grounded in the possible, but people have often extended their imaginations</td>
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<td>to what they wish—or fear—the future will bring. Looking at sources from</td>
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<td>the past, this course looks at how past predictions about new technologies</td>
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<td>have compared to historical reality. It then turns to the present and looks</td>
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<td>at what we can learn about the future of technology from studying</td>
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<td>contemporary predictions of the future.</td>
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<td>CAS 100</td>
<td><strong>Languages of Place</strong></td>
<td>A04</td>
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<td>Places are deeply specific, complex, and resonant for us, in terms of</td>
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<td>memory, emotion, and association: our senses of self, of home, of belonging</td>
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some degree rooted in place(s). Writer David Malouf asserts a reciprocal relation between places and subjects, arguing that “real work of culture” lies in “making accessible the richness of the world we are in, of bringing density to ordinary, day-to-day living in a place.” Taking the philosophy of place and geographers such as Yi-Fu Tuan as a starting point, this course will consider specific places and their expression in the arts. Our questions will be our guides: what, after all, is place? And how is place made present via language or any art? How do we understand ourselves in relationship to place, and by what means does art carry us along for the ride?

**CAS 100 Lyric Adventures & Poetic Forms**  
Extension ID: A05
What is poetry? Poet and scholar Myung Mi Kim has said that “Poetry is simply how you participate in language, and we all do that.” While poets may feel, see and hear poetry everywhere, those who do not consider themselves to be poets may wonder what makes something a poem or even why poems matter. Building on Kim’s framework of inclusivity, this course will introduce students to the impressive and exciting range of experimental techniques and forms that make up the field of contemporary poetry. We will read works by a diverse range of writers, all of which will broaden our definition of what poetry is and how we can engage with it. We will treat writing as an essential component of thinking and engage a combination of creative and critical writing practices.

**CAS 100 Poetry of Struggle: Writers on Social Justice**  
Extension ID: A06
Who controls what we get to imagine? Do words have an effect on the world? Writers have always given their audiences intimate contact with the complexities of human experience. Where politics and media tend to be controlled by market powers, the world of literary art lies predominantly outside of what can be bought or sold. In this course, we will explore how the poetic imagination can extend our understanding of what is possible, bear witness to social and environmental suffering, and counter the apathy, amnesia or cynicism of our age. We will read a range of contemporary poets whose work addresses social issues such as racism, sexism, environmental catastrophe and imperialism. These works will invite us to think critically about subjective experience in the context of an unequal social world. We will treat writing as an essential component of thinking and engage a combination of creative and critical writing practices.

**CAS 100 Reading the Graphic Novel**  
Extension ID: A07
Part popular culture, part literary and artistic medium, graphic novels (or comic books) have long been objects of allure. Only relatively recently have graphic novels moved from childhood and cult fascinations to wide appeal, winning literary prizes and media interest, as well as mainstream publishing contracts. Beyond the pure pleasure of the image-dense narrative, how do we “read” these hybrid texts? What are their aesthetics, methods of production and consumption, and role in our culture? We will address these issues through reading and discussing contemporary examples of the graphic novel.
CAS 100  *Virtue and Emotion*  

Extension ID: A08

What makes a good person good? Do virtuous people have virtuous emotions or are they particularly good at calming and repressing their negative emotions? Thinkers all the way from Plato and Aristotle to our contemporaries, like Antonio Damasio, Martha Nussbaum, and Daniel Goleman, have considered these questions, and so will we. Students will discuss the topics of virtue and emotion in a theoretical as well as concrete and practical way. Emotion and virtue are topics of wide-ranging and interdisciplinary importance, so we will consider educational and managerial approaches, among others, in addition to philosophy and psychology. For example, we will consider the role that emotions ought to play in different professions, like medicine or business, and whether the common cultural messages we hear about emotion and morality are accurate. Along with a variety of short writing exercises, students will develop writing process skills through drafting, writing, and revising three substantial essays.

**Quantitative Skills Courses**

If you do not have college credit for a statistics course, you must take the online Math Placement test this summer, even if you plan to complete the Quantitative Skills requirement in a later semester. To take the Mathematics Placement Exam go to MySlice.syr.edu and click on the following links: Student Services > Placement Exams > Take Placement Exam. A link can also be found on your Course Selection Form, page 1, right column.

MAT 121  *Probability and Statistics for the Liberal Arts I (4 credits)*

First in a two-course sequence. Teaches probability and statistics by focusing on data and reasoning. Topics include displaying data, numerical measures of data, elementary probability, discrete distributions, normal distributions, confidence intervals. NOTE: A student cannot receive credit for MAT 121 after completing STT 101 or any MAT course numbered above 180 with a grade of C or better.

MAT 221  *Elementary Probability and Statistics I (3 credits)*

First of a two-course sequence. For students in fields that emphasize quantitative methods. Probability, design of experiments, sampling theory, introduction of computers for data management, evaluation of models, and estimation of parameters.
SOCIAL SCIENCES DIVISIONAL COURSES

AAS 112  Introduction to African American Studies in Social Sciences (3 credits)
Historical and sociopolitical materials. Approaches to studying the African American experience, antecedents from African past, and special problems.

ANT 111  Introduction to Cultural Anthropology (3 credits)
Economics, politics, religion, symbolism, rites of passage, developmental cycle, and expressive culture.

ANT 121  Peoples and Cultures of the World (3 credits)
Case studies of global cultural diversity. Exploration of daily life, rites of passage, marriage, family, work, politics, social life, religion, ritual, and art among foraging, agricultural, and industrial societies.

ANT 141  Introduction to Archaeology and Prehistory (3 credits)
Survey of the prehistoric past spanning the origins of humankind through the rise of complex societies. Class activities and field trips provide a hands-on introduction to archaeological interpretation.

ECN 203  Economic Ideas and Issues (3 credits)
Foundation of modern Western economic thought. The model economists have built on this foundation as applied to current issues facing individuals and society. Credit is given for either ECN 203 or ECN 101, 102 or ECN 109.

GEO 103  Environment and Society (3 credits)
Relationship between society and the environment. Natural resource use, climate change politics, food and agriculture, energy, water, and sustainability.

GEO 171  Human Geographies (3 credits)
An integrative overview to human geography. Topics include human-environmental relations, demographic change, cultural landscape; urban and agricultural land use and economic restructuring.

GEO 272  World Cultures (3 credits)
The globalization of culture and the persistence of local cultures around the world. Case studies from different regions of the world examine geographical processes that shape ways of life.

HST 101  American History to 1865 (3 credits)
The course surveys the first half of United States history, beginning with the English and European colonization of North America, continuing on through the American Revolution, the ratification of the Federal Constitution, the democratization of politics and religion, territorial expansion and commercial development, increasing sectional tensions over slavery, and ending with the Civil War. Particular attention will be devoted to the global dimensions of our
national history: how world historical events and processes (migration, trade, technological and cultural exchange, diplomacy, war-making, and nation-building) shaped, and were in turn shaped by, the development of the United States. Students will examine these issues through lectures, short films, digital exhibits, readings, and weekly discussion sections.

HST 121  **Global History to 1750 (3 credits)**  
This course introduces students to global history from the thirteenth century through 1750 by focusing on social, economic, political, intellectual, and religious developments in Asia, the Middle East, Africa, Europe and the Americas. We will explore the Mongols across Eurasia, the spread of Islamic empires from Central Asia to the Atlantic, the technological transfers in the Indian Ocean and Mediterranean worlds, the trans-Atlantic slave trade and European colonialism. What types of exchanges were facilitated by maritime trade and trade diasporas? How were human interactions with their environment circumscribed by climate change and disease? Course themes include empire, disease, environment, slavery, religion, state-formation, and the rise of global trade. Topics will be covered thematically in general chronological order. Lectures will be supplemented by maps, visual materials, music, documentaries and films. All students are required to attend lectures and one discussion a week.

HST 222  **History of American Sexuality (3 credits)**  
This course examines sexuality in America from the colonial period to the present, exploring how American views of sex and desire have changed over time. We will study not only sexual behavior through history, but also its changing meaning, and attempts to control its expression. Topics will include colonialism, slavery, race, religion, class, prostitution, women’s rights, birth control, masculinity, and gay and lesbian history.

LLA 201  **Elements of Law (3 credits)**  
Provides an introduction to law and legal institutions. The course is designed to prepare lower-division undergraduates for the further study of legal topics in departments across the College of Arts and Sciences.

MAX 123  **Critical Issues for the United States (3 credits) Extension ID: A01**  
Interdisciplinary focus on critical issues facing America. Perspectives of social science disciplines on the meaning of the American Dream, its past and its future.

MAX 132  **Global Community (3 credits) Extension ID: A01**  
Dynamics of worldwide society and its cultures. Global economy and political order. Tensions within these realms. Attempts by different communities to either participate in or to hold themselves aloof from "global culture."

NAT 105  **Introduction to Native American Studies (3 credits)**  
Overview of critical issues in Native American Studies: colonization, religious freedom, environment, sovereignty, and politics of identity, interdisciplinary,
comparative, and indigenous perspectives in relation to histories, societies, and cultures.

PAF 101 **An Introduction to the Analysis of Public Policy (3 credits)**  
*Extension ID: A01*

Develop research and problem-solving skills to create government policies that address current social and economic problems facing the United States. Students study policy problems of their choice.

PSC 121 **American National Government and Politics (3 credits)**

How does the American political system operate? This course provides an introduction to American political ideas, institutions, behaviors, and processes. Topics include (among other things) the Constitution, Congress, the presidency, the mass media, civic participation, and public policy. Although we will cover the “nuts and bolts” of American government, our focus is on political science rather than civics, which means our task is to analyze and interpret political phenomena. Credit is given for PSC 121 or PSC 129, but not both.

PSC 123 **Comparative Government and Politics (3 credits)**

This course aims to familiarize the students with the general concepts and principles of comparative politics by examining various types of governmental structures and regimes across the globe. The main task of the course is to help students understand how different polities are organized, and draw lessons by closely studying how different governments respond to public policy challenges that are common to all human societies. In this respect, the course will encourage students to think about some of the major questions of our age such as why some countries are democratic, others are not, why some countries have lagged behind others in economic development, and perhaps most importantly how states should relate to their citizens. The course will simultaneously adopt a thematic and geographical approach to study of comparative politics by introducing such topic as presidential v. parliamentary systems, electoral systems, political parties, economic development, and political ideologies by specifically demonstrating how these institutions and ideas operate in various countries. Overall, the course will require students to do a fair amount of reading on a daily basis, actively participate in class discussions, follow relevant news in the media, and watch assigned movies and documentaries.

PSC 124 **International Relations (3 credits)**

Foreign policy, decision making, comparative foreign policy, international transactions, and the international system. Credit is given for PSC 124 or PSC 139, but not both.

PSC 125 **Political Theory (3 credits)**

This course surveys political theories across large stretches of historical time while closely examining some of the great and near-great works from Plato to the present. The examining instruments are what we think we know today about such topics as rationality, social organization, morality, justice, and
critical interpretation. At the end of the course we should have a better understanding of arguments and texts in political theory, and whether and how contemporary political theorists continue the inquiries that began at earlier times in our history. A variety of resources will be used in our journey. Most of the time we will be reading conventional -- what I call linear -- texts that tell a story of political theory from the past to the present. In approximately the last third of the course we will study material from more recent approaches to politics that sometimes maintains, at other times rejects, the theoretical narratives dominating classical and modern thought. The aim here is to illuminate political thought with more recent insights and concepts, often drawn from the work of theorists who question what is taken for granted in traditional theory on the nature of the self, the scope of rationality, and the organization of human communities.

**PSY 205  Foundations of Human Behavior (3 credits)**
Fundamental principles of mental life and human behavior. Significance of psychology in human relationships and self-understanding.

**SOC 101  Introduction to Sociology (3 credits)**
Principal concepts, methods, and findings in sociology. Societal structures, processes, institutions, and social roles from both macro- and microanalytic human-behavior perspectives.

**SOC 102  Social Problems  (3 credits)**
Application of sociological theory and methods to identification, description, and analysis of contemporary social problems. Critique and analysis of alternative strategies for social change.

**SOC 248  Ethnic Inequalities and Intergroup Relations (3 credits)**
Identification of individuals and groups by self and others as members of ethnic categories. Consequences of ethnic identifications for individual, group, and societal interaction. Emphasizing ethnic inequalities, group interactions, social movements and change, racism, prejudice, and discrimination. [Cross-listed as WGS 248]

**HUMANITIES DIVISIONAL COURSES**

**AAS 231  African American Literature to 1900: An Introduction (3 credits)**
African American literature and folklore from colonial days to 1900. Autobiographies, fiction, and poetry, including works by Wheatley, Douglass, Jacobs, Brown, Webb, Hopkins, Dunbar, Chesnutt, Dubois, Johnson, Washington.
ANT 185  **Global Encounters: Comparing World Views & Values Cross Culturally (3 credits)**
Predominant views of reality and values in the cultures of Asia, Africa, and the Americas. Humanistic study of cultures and nature of cross-cultural understanding.

ETS 107  **Living Writers (3 credits)**
This class gives students the rare opportunity to hear visiting writers read and discuss their work. The class is centered on six readings and question-and-answer sessions. Students will be responsible for careful readings of the writers’ work. Critical writing and detailed class discussions are required to prepare for the question-and-answer sessions with the visiting writers.

ETS 113  **Survey of British Literature, Beginnings to 1789 (3 credits)**
We will study texts written during the Middle Ages, the Renaissance, the Civil War and Restoration periods, and the eighteenth century. Beginning with a study of Arthurian legend and the Saxon and Norman literary origins of Englishness, the course will move on to consider major poets and dramatists such as Shakespeare, Spenser, and their contemporaries. We will examine the literary efforts of England’s monarchs, with readings by Elizabeth I, Mary Stuart, James VI and I, along with samples from an increasingly libertine tradition in aristocratic writing. Other highlights will include Aphra Behn’s outrageous play, *The Rover*, and a vibrant assortment of Irish, Scottish, and Welsh texts. The course will close with a look at the rise of the novel in the eighteenth century, and will provide samples including work by Daniel Defoe, Tobias Smollett, and Laurence Sterne. We will ask political as well as formal questions: heritage, sentiment, identity, language, gender performance, sexuality, literacy, socio-economic inequality, religion, and even witchcraft will all be political topics addressed at various points in discussion.

ETS 114  **Survey of British Literature, 1789 to Present (3 credits)**
This course will examine just over two centuries of Britain’s literary history, covering the literature and culture of the Romantic Age, the Victorian Age, and the twentieth century. Historical topics will include: political revolution; the industrial revolution; the Enlightenment; urbanization; evolution; religion; social reform movements; race, class, gender, and sexual politics; nationalism; imperialism; colonialism and its aftermath; the World Wars; postmodernism; and the history of literary forms. Readings will include novels, poems, plays, and other historical texts, covering writers such as William Blake, William Wordsworth, Jane Austen, Robert Browning, Charles Dickens, Bram Stoker, Oscar Wilde, W. B. Yeats, James Joyce, Virginia Woolf, George Orwell, Graham Greene, Sam Selvon, Salman Rushdie, Johnny Rotten, Bob Marley, and Ian McEwan.

ETS 117  **Survey of American Literature, Beginnings to 1865 (3 credits)**
This is a course about the making of America. “America” (the concept of this particular place and what it symbolized) was produced in and through representations of the Western Hemisphere written both by people who lived
and traveled here and by people who had never been here at all. This course will investigate how these representations did the work of “making” “America,” in ways that still influence our conceptions of this place. We will treat early American writing as an historical artifact, in which writers responded to and attempted to shape major events and issues in their historical context. We will cover over three hundred years, during which span of time various literary genres waxed and waned in their importance, moving especially from nonfictional poetry and prose in the early periods to the rise of the novel and other fictional forms in the late eighteenth and nineteenth centuries. This course will be discussion-based and will help you to develop and sharpen your skills of reading, analyzing, and writing about literature, as well as encouraging you to question and investigate the meaning of “America.”

ETS 121 Introduction to Shakespeare (3 credits)
This course offers an intensive introduction to the life and language of arguably the world’s greatest writer, William Shakespeare. This class will focus on two key issues: first, the relation between Shakespeare’s life and his work, and secondly, the language of his plays and poems. We will become familiar with Shakespeare’s biography, and we will read one work from every dramatic genre in which he wrote—comedy, tragedy, history and romance—and also perhaps some of the poetry. No previous familiarity with Shakespeare is required, but you do need to be committed to careful and sustained critical reading and analysis as well as active participation in Friday discussion sections. The main goals of this class are to help you read and enjoy Shakespeare, to foster rigorous intellectual engagement his work, and to allow you develop your own critical writing skills. We will emphasize understanding and engagement with Shakespeare’s language rather than simply its “translation” or the rehearsal of plotlines. Since Shakespeare’s language is what most distinguishes him from his rivals and collaborators—as well as what most embeds him in his own historical moment—this class will take language to be the very heart of Shakespeare’s literary achievement rather than as an obstacle to be circumvented by the reader or audience.

ETS 151 Interpretation of Poetry (3 credits)
The course will consist of discussion of poems from the various traditions of poetry. I’m interested in what makes a poem memorable and moving, how it is a vehicle for the emotions. I’m interested, too, in what provokes and challenges us; what gives poetry its power to seduce and trouble and soothe; and what gives it its music and voice as distinct from speech. Students will be asked to write six short two-page papers in which they examine closely a single poem by a poet from the text. Students may opt to write more papers and receive extra consideration for them. In addition, students will be asked to choose a poet and present the work of the poet in class. The presentation will be the basis of a longer paper on that poet. Memorization of a single poem will also be required. Attendance at the readings on campus is encouraged. Emphasis in discussions will be on style and substance, music and image. Multiple ways of reading poems will help students expand the range of poetic possibilities.
ETS 153 **Interpretation of Fiction (3 credits)**
Critical study of fiction from more than one historical period. Formal, theoretical, and interpretative issues.

ETS 154 **Interpretation of Film (3 credits)**
This course provides an introduction to the interpretation of film. Regarded as the quintessential medium of the last century, cinema has profoundly shaped the ways in which we see the world and understand our place within it. Focusing principally on classical and contemporary English-language cinema, we will investigate precisely how meaning is produced in cinema. The course integrates a close attention to the specific aesthetic aspects of film with a wide-ranging exploration of the social and cultural contexts that shape how we make sense of and take pleasure in films. We shall also devote attention to the question of history: How may one interpret a film in relation to its historical context? Film history incorporates not only the films that have been produced over the past one hundred years, but also an understanding of how the practice of movie going has transformed over time. The weekly Monday night screenings scheduled for this course are required.

ETS 155 **Interpretation of Nonfiction (3 credits)**
This course will introduce you to strategies for interpreting nonfiction. We will analyze various types of nonfiction, including histories, memoirs, blogs, treatises, speeches, documentary films, and journalism. Our inquiries will be guided by questions such as: what kinds of truth claims do these texts make? What are their rhetorical objectives? How do they characterize the writer/speaker? What assumptions do they make about their audience? Our texts will focus on the topic of the culture and politics of food choices, culinary customs, and systems of food production and distribution in the U.S.

ETS 181 **Class and Literary Texts (3 credits)**
Construction and representation of "class," especially as it affects the production and reception of literary and other cultural texts.

ETS 182 **Race and Literary Texts (3 credits)**
Construction and representation of "race," especially as it affects the production and reception of literary and other cultural texts.

ETS 184 **Ethnicity and Literary Texts (3 credits)**
The course introduces students to the field of Latino literature, understood here simply as the creative writings of people of Hispanic descent in the territory that is now the U.S., a branch of American literature with as long a history as any other. Placing the writers and their texts in their respective historical periods and sociopolitical circumstances, the course intends to give students a sense of the size, the diversity, the aesthetic accomplishments, and the complexity of the body of writings under study. We shall read texts for their power of signification as works of literary art while also examining the issues that are prevalent in the literary criticism and theory elicited by Latino
literature, namely questions of history, culture, language, border aesthetics, transnationalism, hybridity, and diasporic identity.

ETS 192 Gender and Literary Texts (3 credits)
Construction and representation of "gender," especially as it affects the production and reception of literary and other cultural texts.

HOA 105 Arts & Ideas I (3 credits) Extension ID: A01
Visual arts in relation to broader cultural, historical, and intellectual contexts. HOA 105 surveys the ancient world to the High Renaissance.

HOM 165 Understanding Music I (3 credits)
The art of music. Development of musical styles in the West from ancient Greece through the Middle Ages and Renaissance. Assumes no prior musical knowledge.

HOM 195 Performance Live (3 credits) Extension ID: A01
The art and meaning of music/dance performance through dialogue with performers in the classroom and experience of performances in local settings, emphasizing both western and non-western traditions. No musical experience necessary.

HST 111 Early Modern Europe, 1350-1815 (3 credits)
This course covers the history of Europe from the Black Death, which marked the end of the Middle Ages, to the French Revolution – the beginning of the modern world. While it will cover the major events of the period – the Renaissance, the Reformation, the English, French and scientific revolutions, the rise and fall of Napoleon, the growth of the modern state – the emphasis will be on changes in the lives of ordinary men and women.

HST 210 The Ancient World (3 credits)
This course surveys the history of the ancient Mediterranean and Near East, and explores the classical roots of modern civilization. We will begin with the first civilizations of ancient Egypt and Mesopotamia, the roots of western religion in ancient Israel; then proceed through Bronze Age, archaic and classical Greece, the Persian wars, the trial of Socrates, the conquests of Alexander the Great, the Hellenistic world, the rise of Rome, and end with the fall of the Roman Empire and the coming of Christianity. The course will treat political, social, cultural, religious and intellectual history. We will focus on issues that the ancients themselves considered important – good and bad government, the duties of citizens and the powers of kings and tyrants – but we will also examine those who were marginalized by the Greeks and Romans: women, slaves, so-called "barbarians." The course will emphasize reading and discussion of primary sources, in order to provide a window into the thought-worlds and value systems of past societies.
JSP 114  **The Bible (3 credits)**
Jewish and Christian scriptures in their ancient near Eastern and Hellenistic contexts, with particular attention to their literary forms, the history of composition and their role in development of Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 117. [Crosslisted: REL 114]

JSP 131  **Great Jewish Writers (3 credits)**
Introduction to fiction by Jewish authors. Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included. [Crosslisted: LIT 131, REL 131]

JSP 135  **Judaism (3 credits)**
Survey of Judaic ideas, values, and cultural expressions as found in biblical, Talmudic, medieval, mystical and modern texts. [Crosslisted as REL 135]

LIN 201  **The Nature and Study of Language (3 credits)**
Introduction to the study of human language. Language change and diversity, usage, meaning, phonetics, grammatical description, and language learning.

LIT 101  **Introduction to Classical Literature (3 credits)**
Major popular and influential genres of classical literature. Heroic tradition in epic and tragic spirit of epic and drama. Birth of comedy.

LIT 131  **Great Jewish Writers (3 credits)**
Introduction to fiction by Jewish authors. Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included. [Crosslisted: JSP 131, REL 131]

LIT 226  **Dostoevsky and Tolstoy (3 credits) Extension ID: A01**
Lectures, readings, discussions, and reports on Dostoevsky’s ad Tolstoy’s major novels.

MES 165  **Discovering Islam (3 credits)**
Islam as a faith and a civilization. Understanding its origins, beliefs, rituals, and historical development of its intellectual traditions in the pre-modern and modern eras, and its geographic, cultural, and theological diversity today. [Crosslisted as REL 165]

PHI 107  **Theories of Knowledge and Reality (3 credits)**
An introduction to some of the main issues, theories and arguments in the areas of philosophy concerned with knowledge (epistemology) and with fundamental and basic features of reality (metaphysics). The course will have 4 equal units concerned with four core issues: the existence of God, the nature and limits of Knowledge, the relation of Mind & Matter (Mind-Body problem), the problem of Free Will. As well as providing an understanding of the philosophical theories and debates on those four topics, the course is
intended to introduce students to the methods and skills of philosophical thinking and reasoning, both in evaluating the arguments of others and in constructing and defending arguments of one’s own. Credit will not be given for both PHI 109 and PHI 107.

PHI 175 **Social and Political Philosophy** (3 credits)
Social and Political Philosophy will focus on issues concerning what, if anything, gives governments the right to rule, what a just government would look like, and how benefits and burdens ought to be distributed in society. We will read classic and contemporary sources.

PHI 192 **Introduction to Moral Theory** (3 credits)
This course is an introduction to major theories about moral rightness and wrongness, about virtue and vice, and about value and disvalue. We examine historically influential theories that continue to be of contemporary interest, such as utilitarian, Kantian, Aristotelian, and social contract theories. Along the way, we discuss the relationship between morality and self-interest, as well as a range of disputed moral issues, such as our duties to non-human animals, the obligations of the affluent towards the poor, and the ethics of radical human enhancement. We use both historical and contemporary readings. Course goals: To enable students to (a) gain a basic understanding of major moral theories, and of their merits; (b) gain a firm understanding of core ethical concepts and distinctions; (c) gain a facility for independently grappling with ethical issues in an articulate and informed manner; and (d) gain improved critical reading and analytical writing skills. Credit cannot be received for both PHI 192 and PHI 209.

PHI 197 **Human Nature** (3 credits)
What are we? What does it mean to be human? Are we rational animals? What does that even mean? Are we free? What is freedom anyway? Do facts about human nature have consequences for how we ought to live? How could facts about human nature have such consequences? (How could they not?) This course is a wide-ranging introduction to key texts about human nature drawn mostly from the Western philosophical tradition. We will read historical texts by Plato, Aristotle, Mill, Freud, Marx, Sartre, and Russell. We will also read some more contemporary texts by Nozick, the Dalai Lama, Kahneman, Fine, Nussbaum and Le Guin. You will learn how to read philosophical texts drawn from different periods of history, how to identify philosophical arguments, and how to critically evaluate and construct philosophical arguments.

PHI 200 **Political Theory** (3 credits)
This class provides an introduction to two basic political questions: (i) What is justice? (ii) What is the role of the government in enforcing justice?. To answer these two questions, we examine two great texts of the western political tradition—two texts that all educated people must know—Plato’s *Republic* and John Stuart Mill’s *On Liberty*. We will also read Michael Sandel’s *What Money Can’t Buy: The Moral Limits of Markets*. In reading Sandel’s text, we will discuss such questions as: Should US Citizenship be for
sale? Should women be allowed to sell their eggs? Should we be allowed to sell our kidneys?

**PHI 251 Logic (3 credits)**
We would like to be able to say when we have good reasons for accepting a conclusion. In PHI 251 we undertake a systematic study to develop an understanding of the standards for deductive reasoning: this is the study of valid argument. In developing this understanding, we learn how to distinguish valid arguments from invalid ones, and we learn how to show that an argument is valid (if it is) and how to show that an argument is invalid (if it is invalid).

In looking at the expression of arguments, we examine two general types of structure: structures that are distinguished by the way that compound sentences and their constituents are related in arguments, and structures that depend on the features of both compound sentences and quantifier words (like 'all' and 'some'). We connect linguistic structure with validity of arguments and see how the study of linguistic structure is a foundation for recognizing valid arguments and for showing that they are valid.

In addition to validity, we will study a number of related concepts (such as inconsistency, logical equivalence, and logical truth).

This course develops a student's abilities of analysis and proof. In particular, a student should be able to determine whether a type of argument is valid or invalid and then show that it is valid or that it is invalid. Students will develop a much finer ability for abstraction, the ability to see what is in common among concrete examples that differ in subject matter. In addition, students should learn a great deal about what is needed for showing something to someone else.

**REL 106 What is Belief? (3 credits)**
Interdisciplinary exploration of belief as religious and cultural phenomena. Readings from historical, philosophical, religious, scientific, and literary sources.

**REL 114 The Bible (3 credits)**
Jewish and Christian scriptures in their ancient near Eastern and Hellenistic contexts, with particular attention to their literary forms, the history of composition and their role in development of Western religions and cultures. Credit is not given for REL/JSP 114 and either REL/JSP 215 or REL 117. [Crosslisted: JSP 114]

**REL 120 Introduction to the Study of Religion (3 credits)**
Introduces students to the academic study of religion as a complex field given shape through a diversity of academic disciplines and questions. Terms, concepts, and ideas will be discussed.
REL 131  
**Great Jewish Writers (3 credits)**
Introduction to fiction by Jewish authors. Topics include modernization, rebellion against authority, alienation, childhood, superstition, and the holocaust. Some films included. [Crosslisted: JSP 131, LIT 131]

REL 135  
**Judaism (3 credits)**
Survey of Judaic ideas, values, and cultural expressions as found in biblical, talmudic, medieval, mystical, and modern texts. [Cross-listed as JSP 135.]

REL 142  
**Native American Religion (3 credits)**
Religious beliefs and practices of native Americans; the diversity as well as the similarity of religious expression.

REL 156  
**Christianity (3 credits)**
Christianity's institutional forms, sacred writings, ideas and beliefs, worship practices, cultural and creative expressions, ethical and political roles in society, from antiquity to the present. How Christianity addresses human needs, concerns, and desires.

REL 165  
**Discovering Islam (3 credits)**
Islam as a faith and a civilization. Understanding its origins, beliefs, rituals, and historical development of its intellectual traditions in the pre-modern and modern eras, and its geographic, cultural, and theological diversity today. [Crosslisted as MES 165]

REL 185  
**Hinduism (3 credits)**
Religious life of contemporary Hindus in India: gods, goddesses, and other divines; worship, sectarian movements; and rituals in the home, at temples, and at other holy sites. [Crosslisted: SAS 185]

REL 191  
**Religion, Meaning and Knowledge (3 credits)**
Exploration of the age-old quest for meaning, knowledge and faith in the face of suffering and loss through art, philosophy, music and literature.

REL 227  
**Gods: Cross-Cultural Gallery (3 credits)**
Study of Gods in a cross-cultural context, accenting forms of Gods perceived and experienced in embodied, visible, concrete form rather than as “transcendent” or “spirit.”

REL 255  
**Depth Psychology and Religious Ethics (3 credits)**
Theories of human nature and their implications for religion and ethics. Includes narcissism, religious experience, moral conscience, mutuality, and the commandment to love thy neighbor as thyself.

SAS 185  
**Hinduism (3 credits)**
Religious life of contemporary Hindus in India: gods, goddesses, and other divines; worship, sectarian movements; and rituals in the home, at temples, and at other holy sites. [Crosslisted: REL 185]
WGS 101 Introduction to Women's and Gender Studies (3 credits)
Gender as a critical inquiry relating to race, class, and sexuality.

**NATURAL SCIENCES AND MATHEMATICS DIVISIONAL COURSES**

AST 101 Our Corner of the Universe (with Laboratory) (4 credits)
Historical and modern understanding of the nature of the solar system. Includes laboratory with observations.

BIO 106 Ocean Life (3 credits)
Marine science sits at the intersection of research, technology, conservation and exploration. This course provides an introduction to the biology of the diverse organisms that live in the ocean, applications of cutting edge technology to their study, recent scientific discoveries, and the science behind current global conservation issues.

BIO 121 General Biology I (with Laboratory) (4 credits)
The first of a two-course sequence comprising a survey of essential biological concepts ranging from the molecular level to global ecology. Two lectures and 1 combined lab/recitation section per week. Students in Biology 121 will explore the nature of science and the diversity of organisms within a framework of major themes including the flow and regulation of energy and information within living systems, and the central and unifying concept of evolution. Efforts will be made to relate key concepts to model organisms for research and practical examples such as diseases and environmental issues.

CHE 103 Chemistry in the Modern World (with Laboratory) (3 credits)
Basic concepts and principles of chemistry. Applications of chemistry to problems in the modern world. Will not satisfy prerequisite requirements for advanced courses in chemistry.

CHE 106 General Chemistry Lecture (with Laboratory) (4 credits)
Fundamental principles and laws underlying chemical action, states of matter, atomic and molecular structure, chemical bonding, stoichiometry, properties of solutions, chemical equilibrium, and introductory thermochemistry. Credit is given for CHE 106 or CHE 109 or CHE 150 but not more than one of these.

CSD 212 Introduction to Communication Sciences and Disorders (3 credits)
Overview of biological, psychological, and social bases of human communication. Nature of deviations from/disruptions to normal speech, language, hearing. Basic principles of diagnosis, intervention, prevention. For human service providers, helping professionals, school administrators. Cannot receive credit for both CSD 212 and CSD 303.

EAR 105 Earth Science (3 credits)
Scientific study of our planet, its history, and the processes that shape it and affect humans. Emphasis includes tectonics, continental surfaces, and
climate. Lecture and recitation, no laboratory; no prerequisite. Intended for non-majors. Students may receive credit for either EAR 105 or 110 but not both.

EAR 110 **Dynamic Earth (with Laboratory) (4 credits)**
Chemical, physical, and biological processes and principles affecting the history and development of the earth. Lectures, laboratory, and field trips. Students may not receive credit for both EAR 110 and 105.

GEO 155 **The Natural Environment (3 credits)**  **Extension ID: A01**
Patterns of the physical phenomena at and near the surface of the earth. Surface configuration, climate, vegetation, and soil and their areal interrelationships.

GEO 215 **Global Environmental Change (3 credits)**
Focusing on physical processes and patterns of environmental change, changes occurring as a result of human activities, and the social consequences of environmental change.

If you choose to take a calculus class as one of your Natural Science and Mathematics Divisional Requirements, you must take the online Math Placement test. To take the Mathematics Placement Exam go to MySlice.syr.edu and click on the following links: Student Services > Placement Exams > Take Placement Exam. Or you may link to the exam from page 1 of the Course Selection Form.

MAT 285 **Life Sciences Calculus I (3 credits)**
Functions and their graphs, derivatives and their applications, differentiation techniques, the exponential and logarithm functions, multivariable differential calculus including constrained optimization. MAT 285 may not be taken for credit after successful completion of MAT 284 or MAT 295.

MAT 295 **Calculus I (4 credits)**
Analytic geometry, limits, derivatives, maxima-minima, related rates, graphs, differentials, exponential and logarithmic functions, mean-value theorem, integration. For science majors. MAT 295 may not be taken for credit after successful completion of MAT 286.

PHY 101 **Major Concepts of Physics I (with Laboratory) (4 credits)**
Explores the fundamental laws which govern the universe with emphasis on the concept of energy as a unifying principle. No science prerequisites. Knowledge of elementary algebra required. Includes laboratory.

PHY 211 **General Physics I (with Laboratory) (4 credits)**
First half of a two-semester introduction to classical physics including mechanics and thermal physics. Uses calculus. Knowledge of plane trigonometry required. **COREQ: MAT 285 OR 295 (or credit for AP Calculus)**