School of Architecture, Planning, and Preservation

Architecture—ARCH150: Discovering Architecture (there is an additional $110 course fee)
If you dream of designing buildings, bridges, or parks, discover the possibilities in this hands-on course. This hands-on course is designed to assist you in making an intelligent choice about a possible career in architecture. You’ll learn about careers in architecture, landscape architecture, and urban design. Get the chance to meet successful architects, go on guided tours of architectural landmarks, and learn basic design principles that you’ll use to complete your own design project. You’ll work on your active learning design projects in the School of Architecture, Planning and Preservation’s design studio environment and interact with graduate students in architecture while getting a taste of what it's like to be an architecture student. Experience creative, innovative ways to view the world through architectural design thinking.

College of Arts and Humanities

Communication—COMM298L: Speak Up!—Persuasion, Influence, and Leadership
Who says you cannot make a difference? You are invited to “fasten your belts” and take a three-week drive on Advocacy Lane to best practices in communication and leadership. This course will expose you to cutting-edge communication principles and strategies most frequently used in the center of it all—Washington, DC. Join us to unlock the mysteries of creating messages that lead to social and political change, the type of messages often used in public relations, advertising, political campaigns, interpersonal dynamics, and leadership. You will learn to analyze and produce effective messages, to advocate for change, to write and speak with impact, and think critically.

Creative Writing—ARHU298J: Cross Cultural Perspectives in Poetry and Fiction
Immerse yourself in the writing of fiction and poetry that encourages creativity while expanding knowledge. You’ll hone your writing craft in a nurturing, interactive environment while developing skills that help uncover your own distinctive voice. You’ll read great poems and stories from across cultures and engage in related writing exercises. You’ll also refine your skill through close reading, radical revision, and the delivery of constructive criticism on peer work. Morning sessions emphasize assigned readings, writing, analysis, and discussions of craft. Students receive careful, detailed responses to their writing from both instructors and peers. Afternoon sessions are devoted to studio time spent reading and writing. You’ll share your original writing in a supportive workshop setting and discover new approaches to revision.

Philosophy—PHIL209Q: The Art of Thinking
The goal of this course is to make you a sharper, more critical thinker and a more effective reasoner. You will learn to spot errors in other people’s reasoning; equally importantly, you will be more aware of how your own judgment can go wrong. The skills you learn will be useful across the full range of academic disciplines, and in the world beyond the classroom. The course begins with the study of logic. We will make clear the difference between good ("valid") and bad ("invalid") reasoning, examine the distinction between deductive or purely "logical" reasoning and inductive reasoning—the kind that lies behind science, and we’ll study techniques for spotting hidden assumptions. We then move to psychology which has lately taught us a lot about how our reasoning can go off the rails. (Psychologist Daniel Kahneman’s work on this won a Nobel Prize in 2002.) Some of the very things that help us think efficiently in many situations can lead to trouble in others. Politicians and advertisers exploit these quirks in our cognitive systems, but they can also lead to problems in everyday situations. By understanding what the psychologists have uncovered, we can be more alert to sources of bias and error in our thinking. Finally, in the third part of the course, we’ll turn to practical applications ideas by exploring arguments on both sides of some contemporary ethical, political and social controversies. This will give you a chance to put your sharpened reasoning skills to work on real-world issues.
Anthropology—ANTH221: Forensic Anthropology
Through lectures and hands-on experience, this course will cover: Criminalistics, Digital & Multimedia Sciences, Engineering Sciences, Jurisprudence (lawyers and judges), Odontology (Forensic dentistry), Pathology/Biology, Physical Anthropology, Psychiatry/Behavioral Science, Questioned Documents, Toxicology, and General Forensic Sciences. Also covered would be such general topics as evidence, testimony, standards and real world applications of the forensic sciences such as mass disasters or human rights violation.

Anthropology—ANTH240: Introduction to Archaeology
Exploration of the variety of past human societies and cultures through archaeology, from the emergence of anatomically modern humans to the more recent historical past.

Economics—ECON111: Thinking Like an Economist
The philosophy underlying this course is that non-specialists can gain a facility in thinking like an economist without the need to learn elaborate economic theories or complicated mathematical techniques. The course’s goal is to equip students with no prior training in economics with the skills that will enable them to think like an economist about issues that arise in the media and in everyday life. To do so requires applying a combination of rigorous logic, simple analytical tools that economists regularly use, and an understanding of which tool applies in which context. Economics analyzes and predicts the outcomes generated by groups of interacting individuals, whether it is several friends deciding between restaurants or a whole society trying to reduce unemployment. How do economists predict what will happen as individuals make their own decisions and interact with one another? How do economists analyze whether the results are good or bad for the individuals? These are two fundamental questions that the course answers. The course introduces the student to how economists think by focusing on case studies. By deliberating on issues of fundamental interest, students will become acquainted with the methodological tools of economics and see the power that these tools have to produce insightful answers. By applying a variety of tools in practical contexts, students will learn which characteristics of a problem dictate the choice and use of a particular analytical tool.

Government and Politics—GVPT170: American Government
This course provides an introduction to the study of American government. We will discuss the institutions that comprise the American political system, as well as the way in which individuals and actors interact with these institutions. We will move beyond a mere description of American government to a discussion of why the contemporary American political system operates as it does, how it has changed over time, and how it compares to other systems. We will also discuss what role citizens play in the political system and the ways in which institutions and the political system might be improved.

Government and Politics—GVPT200: International Political Relations
Discover what it takes to be a world leader in this hands-on exploration of the field of international relations. Using the major theories of international relations, you’ll find out how the international system works in an intensive, interactive exploration. You’ll learn why nations go to war and why they make peace and whether the nature of the international system is inherently hostile or inherently collaborative. Moreover, you’ll consider how countries react when new issues, threats, risks, and opportunities emerge in the international arena.

MLAW Programs—MLAW298M: Mock Trial
Experience the excitement and reward of arguing, and perhaps winning your client’s case in court! Mock Trial is designed to introduce students to the key principles of trial advocacy through a “learn by doing” approach to instruction. While classes will include explanatory lectures, the emphasis will be on learning through student exercises and by students observing and analyzing the performances of others. This hands-on course will culminate in two mock trials where students will serve as attorneys and witnesses. While no one should expect to leave this class as a polished advocate ready for trial, everyone can expect to leave with a greater understanding of litigation tactics and courtroom performance. Irrespective of initial skill levels, students will leave this class with greater confidence in public speaking and advocacy. As part of the course, students will have the opportunity to engage members of the legal profession both inside and outside of the classroom. In the last week of the program, students will take a field trip to the Circuit Court for Baltimore City where they will watch a trial unfold. Thereafter, students will travel to the University of Maryland Francis King Carey School of Law where they will take a tour of the law school building and meet with representatives from the Office of Admissions. Should you apply and be admitted to
the University of Maryland, College Park, this course will also prepare you to join the national champion UMD Mock Trial team when you enroll.

**Psychology—PSYC221: Social Psychology**

This course looks closely at the influence of social factors on the individual and on interpersonal behavior. Topics such as conformity, attitude change, person perception, interpersonal attraction, and group behavior will be discussed. Students in this class will study the psychology of persons and their relationships with others and with groups and with society as a whole. This class will also look at macro-social phenomena (e.g. social class) as they relate to the attitudes and behavior of individuals. Of special concern to psychological sociologists is how to explain a variety of demographic, social, and cultural facts in terms of human social interaction. Some of the major topics in this field are social inequality, group dynamics, social change, socialization, and social identity.

**Robert H. Smith School of Business**

**Business —BMGT289B: How Do Innovators Think?**

Innovation skills are now necessary for students to be prepared for an increasingly complex life and work environment. Further, creativity, critical thinking, and collaboration are essential components to an organization’s ability to revolutionize industries and generate financial successes. This course addresses the challenges and opportunities of managing innovation by primarily focusing on three areas: understanding innovation, managing innovation, and developing your creative potential and your ability to innovate.

**School of Engineering**

**Maryland Technology Enterprise Institute —BIOE160: Biopharmaceutical Production (there is an additional $90 course fee)**

Ever wondered how human insulin can be made from E.coli? Since the 1980s, biotech companies have been making medical drugs using biotechnology. These companies use living cells to produce proteins, antibodies, and nucleic acids for therapeutic purposes. This course takes students through a biotechnology “campaign” where they will transform E.coli into a green fluorescent protein factory. Students work in teams, simulating a start-up biotech company. Teams will attempt to optimize expression of proteins, run industrial-sized fermenters, perform protein analysis and separations, and purify their own biopharmaceuticals, on time and under budget. This course focuses on the basics of recombinant DNA technology, as applied to biopharmaceutical manufacturing, in a classroom setting. Students will work through a “production campaign” including all key steps of manufacturing a protein product.

**Engineering—ENES100: Introduction to Engineering Design**

This course introduces you to engineering and the engineering design process. While working in teams to design, build, test, and analyze a number of challenging robotics-oriented projects, you’ll learn fundamental engineering analysis methods and how to apply them using software packages. Communication skills are an important part of the design process, and you’ll present your designs to fellow participants as well as faculty from the School of Engineering. Teams also use their creative and technical talents to develop their own unique team Web site. In addition to the robotics projects, you’ll build a sensing device to remotely measure temperature, program the acquisition system to take the measurements, and, finally, analyze the data that is recorded. You’ll be introduced to the various departments of the School of Engineering and have the opportunity to talk to faculty and students, tour facilities, participate in laboratory demonstrations, and get detailed information about the discipline.

**Engineering—ENES104: Introduction to Materials and their Applications: What Are Things Made From?**

Creating a new technology, nanotechnology, biotechnology, plastic electronics requires developing the materials first. Discover Materials Science and Engineering, where engineers change the properties and/or behavior of a material to make it more useful. You’ll look at the spectrum of materials—metals, ceramics, polymers (plastics), semiconductors, and combinations of materials called composites—and explore how engineers deal with the science and technology of producing materials that have improved properties and shapes suitable for practical use. You’ll also explore the chemical composition, phase transformations, corrosion, and mechanical properties of materials as well as their electrical, thermal, magnetic, and optical properties. Learn about the unlimited possibilities for innovation and adaptation through the exciting field of nanotechnology—the ability to create and build materials and products with atomic precision. Finally, through guest speakers and field trips, you’ll discover that materials science engineers are found in such industries as aerospace, transportation,
electronics, energy conversion, and biomedical systems. **Prerequisites:** Students should have one year of high school chemistry or equivalent to take this class.

**Engineering—ENFP102: Engineering and Testing Creative Fire Safe Building Designs**
This course will introduce students to Fire Protection Engineering (FPE). Discussions on contemporary fire safety topics are designed to raise your interest and understanding of fire, its impact on people, property and the environment and methods to mitigate the threat of fire. Students will have hands-on experiences through a set of demonstrations and a final experiment to explore fire behavior and the performance of fire safety systems. The final experiment will apply the principles of fire behavior and fire safety systems to build and test a fire safe, small-scale residence.

**College of Computer, Mathematical and Natural Sciences**

**Biological Sciences Program—BSCI279E: Environmental Biology**
The environment is in the news almost daily—global warming, toxic waste, oil spills, and loss of biodiversity. How can you understand these complex topics? What is the basis for your own behaviors and decisions regarding the environment? The science of environmental biology can help you make sense of the natural world around you and your impact on it. BSCI279E will explore adaptation and natural selection; organismic, population, community, and ecosystem ecology; and human impact on natural systems. Each week will feature a day-long field trip with organized learning activities that spotlight ideas and information crucial to the course. In addition, several on-campus field activities will introduce students to local freshwater and terrestrial ecosystems.

**Computer Science - CMSC122: Introduction to Computer Programming via the web**
This course provides an introduction to the internet/web capabilities and trends, and to computer programming in the context of building simple web pages. Intended for students with no previous programming experience who wish to understand the technologies making web sites possible, this course will provide a set of practical problem solving skills necessary for the development of dynamic client-side web content. This class provides non-majors with a basic skill set for leveraging web technologies and limits of such resources.

**Computer Science - CMSC198B: Computer Science: A “Hands Off” Approach**
(1) Alice and Bob want to communicate in secret, so that even if Eve intercepts their message, she cannot tell what it said. We present several ways for Alice and Bob to do this, some of which do not require Alice and Bob to ever meet! (Public Key Cryptography) (2) Zelda has a secret. She wants that if four of her eight friends get together they can discover it, but if three of them get together they cannot. We present several ways for Zelda to give shares of the secret to her friends so that this happens. These may sound like fun puzzles, and they are. But they also have vast implications and applications for modern day cryptography and security.

**College of Journalism**

**Journalism—JOUR150: Introduction to Mass Communication**
JOUR 150, an Introduction to Mass Communication, is part of the summer Terp Young Scholars program. The three-credit course is an overview of journalism for students considering a career in the media or simply interested in the media as smart consumers. The course will explore the importance of the news profession in a democratic society and the evolving role of journalists in the contemporary media landscape. Coverage of politics, sports and gender and minority issues will be explored, and guest speakers will be tapped from the profession and the university. In addition, the course will expose students to the basic skills needed to research, report and write news stories on deadline for print (newspaper and magazine) and Web publications. Students will take an excursion to a professional newsroom and drop in on student publications to explore the roles of editors, videographers, home page producers and more.

**School of Public Health**

**Kinesiology—KNES200: Introduction to Kinesiology—Discover Kinesiology**
Take a course that really moves you! Kinesiology includes exercise physiology, biomechanics, sports psychology, movement sciences, and sports management. Learn about some of the career options that are available—physical therapy, physical education, fitness training, and sports management. You’ll learn how researchers study athletes, patients who have movement difficulties, infants and young children who are learning to move, sport organizations, and much more. Get hands-
on laboratory experience and meet the scientists who work there. Interact with coaches, athletic trainers, physical therapists, sports medicine physicians, and sports management professionals.

**Honors College**

**Honors—HDCC106: Introduction to Digital and Creativity–Mobile Media Design and Culture**

The most pervasive digital technology on the planet at the moment is the mobile device. Mobile media are being used in a wide range of ways globally and making tremendous impacts on the ways people communicate, document the world, share news, consume entertainment, live social and romantic lives, and create art (to name a few). How do we design for such a rich ecosystem with different expectations and uses from one region to the next? How does the field of cultural studies inform the ways we can be thoughtful in our approach to mobile design? This course looks at a range of big topics — mobile media history, practices of space & place, medium-specificity, locative media, participant motivation, gaming, materiality and tangibility, creative misuse, and design challenges for the future — and how theory and practice of mobile design can offer some perspectives on these topics. Throughout the course, you will gain a toolkit of design skills including learning HTML5, CSS, JavaScript, and jQuery mobile in order to prototype, test, and launch your own app by the end of the course.