JMHP Class Guide
Fall 2026

April 4, 2026

Georgia Tech
John H. Martinson
Honors Program

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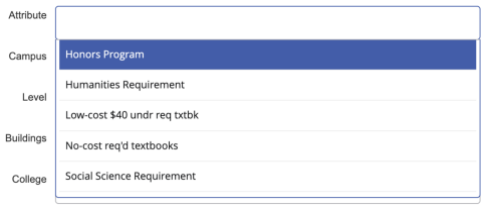
Faculty Director's Note
April 4, 2026

Dear JMHP Students,

I hope everyone is having a great semester! It's hard to believe, but it's already time to start thinking about registration for fall 2026 classes. Time tickets will post on April 9th and Phase I registration is April 13th – May 22nd. Time tickets for Phase II registration will post on August 13th and registration will occur from August 17th – 28th. The first day of fall classes is August 24, 2026.

Please check out the JMHP class options listed in this guide and on the **JMHP website**. You'll find great JMHP classes taught by dedicated faculty on a wide variety of engaging and timely topics. There is also an awesome feature in **OSCAR** that will allow you to search for John H. Martinson Honors Program classes being offered. Select fall 2026, then "Advanced Search," then select "Honors Program" from the "Attribute" menu. This will bring up the JMHP classes that are being offered (make sure to select at least one subject first, or select all subjects to bring up every JMHP class).



Here are some IMPORTANT NOTES about some fall JMHP lab science classes:

1. We are offering JMHP sections of BIOS 1107, CHEM 1211K, CHEM 1212K, PHYS 2211, and PHYS 2212 with affiliated Honors Program labs. ***You must register for both the JMHP lecture and JMHP lab.***

    a. The lecture and labs for CHEM and PHYS are linked in OSCAR—you will ONLY be able to sign up for the JMHP lecture and linked JMHP lab.

    b. The lecture and lab for BIOS are not linked in OSCAR—you must select the correct JMHP lecture and lab class. ***If you do not take both the JMHP section of the lecture AND lab for this class, you will not get credit for either of them!***

As always, please work with your GT Academic Advisor to choose options that bring you the benefits of JMHP-style learning and that work for your GT major degree. You are also invited to consult with our **JMHP Academic Advisor, Gabriel Alvarado-Gonzalez**.

If you ever have questions or concerns, don't hesitate to contact me at **amy.dunger@gatech.edu**. Have a fantastic conclusion to your spring semester and good luck with fall registration.

Regards,

Dr. Amy D'Unger
Faculty Director

APPH 1060 HP: Flourishing - Strategies for Wellbeing and Resilience

Dr. Christie Stewart

2 credit hours
48 HP seats

Everyone experiences some level of stress and adversity in their daily lives. The pressure to perform academically, complete the necessary tasks in a given day, deal with relationship issues, and/or manage financial challenges can be daunting. Learning to effectively manage life stressors is a lifelong skill. The purpose of this course is to help students improve their health and well-being and flourish in their environment by using the conceptual pillars to develop skills related to coping, resiliency, optimism, gratitude, mindfulness, and emotional intelligence. Students will be challenged to evaluate their current overall health/well-being status and identify strategies for improvement in personal and professional growth to achieve a positive, meaningful and fulfilling life.

Dr. Christie Stewart is a Senior Academic Professional in the School of Biological Sciences and a certified Gallup strengths coach. She received a Bachelor of Science in Movement Science from the University of Pittsburgh, a Master of Education in Clinical Exercise Physiology from the University of Georgia, and her Doctorate in Educational Leadership from Mercer University. She is co-director of the wellness requirement at Georgia Tech and co-developed the course, *Flourishing: Strategies for Well-being and Resilience.* Christie has a passion for helping others develop skills in self-care and creating a culture of well-being at Georgia Tech. She centers her research and teaching on the development of communities to support well-being.

Lecture:	T/TH 12:30 PM Curran Street Deck 210 (LLC West Commons Classroom; 8th St.)
CRN:	87864

BIOS 1107 HP: Biological Principles I
BIOS 1107L HP: Biological Principles I Lab

Dr. Shana Kerr (lecture) and Dr. Colin Harrison (lab) 4 credit hours (lecture + lab)
Please note: *you MUST register for the HP lecture* ***and*** *lab section to receive JMHP credit.* 14 HP seats

In this **active-learning** course, you will explore the basic principles of modern biology, including biomacromolecules, bioenergetics, cell structure, genetics, evolution, and ecological relationships. You will also develop scientific skills in analyzing and interpreting scientific data to test hypothesis and communicate scientifically. Finally, you will develop and practice skills in metacognition to identify your best learning strategies that you will be able to employ in your future courses and career. By the end of this course, you will be able to:

A. Explain biological principles of modern biology, including biomacromolecules, bioenergetics, cell structure, genetics, evolution, and ecological relationships (Course lecture content).
B. Use scientific skills to test hypotheses, design experiments, analyze and interpret data, and communicate scientifically (Course lecture content)
C. Communicate effectively using appropriate scientific language (Course lecture content and Scientist Spotlights)
D. Appreciate commonalities and differences among people who practice science, and recognize that there are multiple pathways into science as a career (Scientist Spotlights)
E. Reflect on the usefulness of your study strategies and identify new strategies and practices to achieve your best learning strategies (Metacognition Module and Exam wrappers)

Dr. Shana Kerr joined the faculty at Georgia Tech in the summer of 2012. She earned her Ph.D. in Biochemistry Cell and Developmental Biology from Emory University where she studied transcriptional regulation at the nuclear pore complex. During postdoctoral work as an NIH IRACDA Fellow at Emory University, she investigated the reprogramming of histone modification-mediated transcriptional memory at fertilization.
At Georgia Tech, Shana teaches in the introductory biology sequences, in the TA development and pedagogy course, and a variety of upper level core and elective Biology courses. She is also the Director of Advising in the School of Biological Sciences and a Biology undergraduate academic advisor. Her current research interests include the impact of active learning approaches on student learning in science content and process skills, retention in science fields, and attitudes toward science.

Dr. Colin Harrison is a Senior Academic Professional in the School of Biological Sciences. He earned his Ph.D. in Genetics and Molecular Biology at Emory University and B.S. in Genetics at the University of Wisconsin. He studies biology education research with a focus on laboratory learning, instructor language, and science identity. His research interests include STEM education, developmental biology, and genetics.

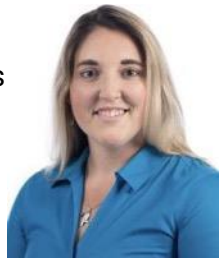
Lecture (HP)	M/W 8:25 AM Clough 144
Lab (HP)	W 3:30 PM Clough 487
CRN (lecture- HP) **CRN (lab- HPL)**	88805 88548

CHEM 1211K HP: Chemical Principles I
CHEM 1211K HP4: Chemical Principles I Lab

Dr. Angus Wilkinson (lecture) and Dr. Deborah Santos (lab) 4 credit hours
Please note: *you MUST register for the HP lecture* ***and*** *lab section to receive JMHP credit.* 12 HP seats

This course is the first of a two-semester sequence that introduces the foundational concepts of chemistry. General topics covered include periodicity, stoichiometry, atomic structure and the quantum mechanical model of the atom, the role of molecular structure and bonding theory in the properties and behaviors of molecules, thermochemistry and thermodynamics, and the behavior of gases. There is heavy emphasis on the application of chemical concepts. The laboratory and lecture components of the course are linked with emphasis on correlation of content between the two.

Dr. Angus Wilkison is Professor and Associate Chair for Academic Programs in the School of Chemistry and Biochemistry. His research focuses on low and negative thermal expansion (NTE) materials and synchrotron X-ray methods. He received his Ph.D. in Chemistry from Oxford University and is the recipient of a variety of major awards, including the NSF CAREER award, Sigma Xi award for outstanding research by a junior faculty member, and the Linus Pauling Prize, awarded by the American Crystallographic Association.



Dr. Deborah Santos is a recent addition to the School of Chemistry and Biochemistry and heads up the first-year chemistry labs. She grew up in the Metro Atlanta area and has attended and taught in several schools and universities prior to coming to Tech. She received her Ph.D. in Chemistry Education from Georgia State University this year and an M.S. in Organic Chemistry from the University of Georgia in 2015. She was a high school chemistry teacher prior to earning her Ph.D. and has current research interests in how students learn to “do” science. Her Ph.D. work focused on the psychological aspects of learning chemistry (mindset and motivation) and her M.S. work involved developing chemistries for attaching carbohydrates and proteins to polymer surfaces for biological applications.

Lecture	M/W 8:25 AM Scheller 100
Lab	TH 12:30 PM Clough 572
CRN (lecture- HP) **CRN (lab- HP4)**	89478 89480

CHEM 1212K HP: Chemical Principles II
CHEM 1212K H27: Chemical Principles II Lab

Dr. Carrie Shepler (lecture) and Dr. Deborah Santos (lab) 4 credit hours
Please note: *you MUST register for the HP lecture* ***and*** *lab section to receive Honors Program credit.* 12 HP seats
Prerequisites: *CHEM 1211K* ***or*** *CHEM 1310*

Welcome to Chemical Principles II, the second course of our two-semester sequence for majors! Through this course, you will learn how to think about chemical reactions in terms of their kinetics and thermodynamics, to apply chemical principles to inorganic and biological systems, and begin to understand the reactivity of elements and molecules through periodic table trends, molecular orbital theory, and acid-base theory. Students will actively participate in discussions and in-class problem solving to deeper their understanding of core chemistry concepts.

Dr. Carrie Shepler is a Principal Academic Professional and the Assistant Dean for Teaching Effectiveness. She received her Ph.D. from Washington State University and was a Franklin Teaching Post-Doctoral Fellow at the University of Georgia prior to coming to Georgia Tech. She was recently named a 2024-25 Inclusive Excellence Faculty Fellow.

Dr. Deborah Santos is a recent addition to the School of Chemistry and Biochemistry and heads up the first-year chemistry labs. She grew up in the Metro Atlanta area and has attended and taught in several schools and universities prior to coming to Tech. She received her Ph.D. in Chemistry Education from Georgia State University this year and an M.S. in Organic Chemistry from the University of Georgia in 2015. She was a high school chemistry teacher prior to earning her Ph.D. and has current research interests in how students learn to "do" science. Her Ph.D. work focused on the psychological aspects of learning chemistry (mindset and motivation) and her M.S. work involved developing chemistries for attaching carbohydrates and proteins to polymer surfaces for biological applications.

Lecture	T/TH 8:00 AM Clough 144
Lab H27	T 3:30 PM Clough 573
CRN (lecture- HP) **CRN (lab- H27)**	89477 87341

COE 3002 HP: Intro to Microelectronics and the Nanotechnology Revolution

Dr. John Cressler

3 credit hours
11 HP seats

COE 3002 develops the general scientific and engineering underpinnings of microelectronics and nanotechnology and examines how this new technological revolution is influencing a broad array of interdisciplinary fields (engineering, biology, biomedical engineering, material science, chemistry, physics, medicine, technology, management) and civilization as a whole (art, business, film, entertainment, politics). Special "widget deconstruction" topics will address common pieces of modern technology (e.g., smart phone, flash drive, GPS, DVD, digital camera, etc.) from the perspective of: "How do they do what they do?"; "How does microelectronics & nanotechnology play in that functionality?"; and "Where is the technology going and how will it change the way we live our lives?" This is a very conversational class. Student-led team debates and class discussion threads will examine the transformational impact of the microelectronics and nanotechnology revolution on modern society. A team "widget deconstruction" project will serve as a capstone for the course. No special knowledge of electrical and computer engineering is assumed. This class will be highly interactive and student participation is key.

Dr. John D. Cressler is Regents Professor, Schlumberger Chair Professor in the School of Electrical and Computer Engineering, and the Ken Byers Teaching Fellow in Science and Religion. The basic thrust of Cressler's research is to develop novel micro/nanoelectronic devices, circuits and systems for next-generation applications within the global electronics infrastructure. In addition to his academic duties, Cressler writes historical fiction, love stories set in medieval Muslim Spain that celebrate the era of *convivencia* (coexistence), a unique period when Muslims, Jews, and Christians lived together in harmony. He is deeply interested in the on-going dialogue between science and religion, and teaches the popular IAC 2002, "Science, Engineering and Religion: An Interfaith Dialogue," each spring, open to all GT students. Cressler was awarded the 2010 Class of 1940 W. Howard Ector Outstanding Teacher Award (Georgia Tech's top teaching award), and the 2013 Class of 1934 Distinguished Professor Award (the highest honor Georgia Tech bestows on its faculty). Visit him at: http://users.ece.gatech.edu/~cressler (research) and http://johndcressler.com (books).

Lecture:	T/TH 5:00 PM College of Computing 102
CRN:	92096

CS 1301 HP: Introduction to Computing (ONLINE)
CS 1301R HP1: Introduction to Computing Recitation (ONLINE)

Dr. David Joyner
Please note: *you must register for the lecture and recitation separately. Class is* ***online and asynchronous****. Recitation is* ***online and synchronous****.*

3 credit hours
50 HP seats

The purpose of this online course is to give students an introduction to computer programming. Students will gain experience and practice with logical thinking and debugging. The focus in the course is on developing skills and experience in software development and use of software tools. No prior CS coursework is required. The HP section will be limited to 50 students and will include a recitation session led by a CS teaching assistant. On four occasions, Dr. Joyner will attend the recitation session.

Dr. David Joyner has a passion for leveraging new technologies to improve student learning. He focuses on online learning not through MOOCs, but through large online classrooms. He is interested in the unique opportunities these classes have for personalizing student learning and granting students greater ownership and autonomy over their education. He's seen incredible things happen with online learning at the graduate level, and is excited to extend those opportunities to undergraduate students. Dr. Joyner completed his Ph.D. in Human-Centered Computing at Georgia Tech. He now works for the College of Computing as its Associate Director for Student Experience. Dr. Joyner also teaches in the OMSCS program, teaching CS6460: Educational Technology, CS6750: Human-Computer Interaction, and CSE6242: Data & Visual Analytics. He also runs an online research lab: lucylabs.gatech.edu.

Recitation	TH 5:00 PM online (synchronous)
CRN (online lecture – HP) **CRN (online recitation – HP1)**	85083 87711

CS 2701 HP: Startup Lab: Introduction to Technology Ventures

Dr. Merrick Furst

3 credit hours
10 HP seats

This course will further students' ability to be of value in the world. This will be accomplished by learning to become competent at leading formative innovation processes and developing an understanding of the artificial instincts needed to build and maintain a deliberately innovative culture at both startups and established organizations, whether in business, industry, governmental/non-governmental organizations, academia, or other contexts. Students will learn a theoretical framework and practical methodology for answering their questions about teaming, leadership, negotiation, finance, ideation, customer discovery, prototyping, market analysis, business models, selling, capital raises, and storytelling. Students will apply their learning in team projects. No prior coursework is required; students should be prepared, however, to engage novel theoretical concepts at the intersection of innovation processes and human/social behavior.

Dr. Merrick Furst is a Distinguished Professor in Computing and the Director of the Center for Deliberate Innovation. He founded the Center for Deliberate Innovation (cdi.gatech.edu) at Georgia Tech where the Change Accelerator operates. The principles and methods of Deliberate Innovation were first developed by Dr. Furst during the operation of the Flashpoint@GT program. These principles and methods are now being made more widely available through the CDI, and are being further developed with seven members of GT's faculty who are fellows of the center. Dr. Furst's work at Flashpoint@GT is credited with helping hundreds of founders and innovators think more clearly about their work. Since 2011, these individuals have collectively created over $2 billion in economic value, and have attracted more the $400 million in venture capital to projects that now operate in neighborhoods around campus.

Dr. Furst came to Georgia Tech from Berkeley, where he was the director of the International Computer Science Institute. In his role as associate dean in the College of Computing at Georgia Tech, along with many talented faculty colleagues and administrators including the current dean of the college, Professor Charles Isbell, he led the innovation of the Threads program that has redefined how we think of undergraduate programs. He is known for his seminal research in algorithms, complexity theory, and most famously for a breakthrough in AI Planning. Among other honors, Dr. Furst received the Georgia Tech Award for Outstanding Achievement in Research Innovation, The Freeman Faculty Award, The Inaugural GTRC Impact in Innovation Award, The Freeman Entrepreneurship Award, and the first Presidential Young Investigator Award ever given in computer science.

Lecture	W 12:30 PM Whitaker 1232
CRN	88889

CS 4010 HP: Introduction to Computer Law

Dr. Olufisayo Omojokun & Ms. Laura Huffman, Esq.

3 credit hours
7 HP seats

An understanding of certain aspects of the law can help computer scientists contribute more to their enterprise. We will learn about the various types of law that computer scientists may encounter. Students will be exposed to the US legal system, intellectual property, licensing and contracts, and data privacy. In what we believe to be the first of its kind in a computer law course, students will analyze third-party commercial-grade code as a technical expert (witness) might do to support a litigation. At the end of the course, students should be aware of basic legal issues in the computer field and understand when they need advice from a lawyer. Students from all majors are welcome and the class does not have prerequisites.

Dr. Olufisayo "Fisayo" Omojokun is the chair of the School of Computing Instruction. He received his Ph.D. (2006) in computer science from the University of North Carolina at Chapel Hill and has been teaching a wide range of courses at Georgia Tech since 2009. His interest in computer law was sparked by his consulting work as a technical expert witness.

Ms. Laura Huffman is an associate in the Atlanta office of King & Spalding and a member of the firm's Intellectual Property Counseling practice. Her practice includes all aspects of intellectual property litigation and counseling with a primary emphasis on patent litigation. She represents Fortune 100 clients in patent infringement lawsuits in federal district courts across the United States and the International Trade Commission, including cases involving optical devices and fabrication, optical systems, telecommunications equipment, and information systems.

Lecture	T/TH 11:00 AM Howey N210
CRN	89633

EAS 1600 HP: Introduction to Environmental Science
EAS 1600 HPL: Introduction to Environmental Science Lab

Dr. Zachary Handlos (lecture) and Dr. Liana Boop (lab) 4 credit hours

Please note: *you MUST register for the HP lecture* ***and*** *lab section to receive Honors Program credit.* 24 HP seats

Understanding Earth's environment requires understanding how the whole Earth functions as a system. We will begin by considering external influences on Earth's environment and reviewing the systems approach for studying interrelated phenomena, as well as the basic physics needed for such studies. We will then investigate four components of the Earth system in detail: the atmosphere, the oceans, the solid Earth, and the biosphere. We will explore how each component interacts with the others and how these processes control Earth's climate. We will finish with a discussion of modern anthropogenic climate change.

The lab further investigates topics covered in the co-requisite lecture course. Over the semester, we will explore how the Earth System operates as a delicately connected system, where a change in one component can have ripple effects throughout the system. In the lab, we will model various natural processes to understand how Earth receives energy from the Sun, the dynamics of air in our atmosphere, how water density differences drive deep ocean circulation, and how materials are cycled through complex systems. We will consider case studies related to rainforest deforestation, ocean plastic pollution, present-day climate change, and how coastal communities can adapt to sea level rise. Throughout the term, you will be challenged to consider how the topics that we cover relate to your life, and how you can affect change through your personal daily choices as well as those that you will make throughout your career.

Dr. Zachary Handlos is a Senior Academic Professional in the School of Earth and Atmospheric Sciences (EAS) at Georgia Tech where he teaches a variety of introductory and upper-level undergraduate EAS courses, with a primary focus on meteorology education. He also co-advises undergraduate EAS students, facilitates a variety of programming, conducts research in the fields of synoptic meteorology and atmospheric science education, including mentoring of undergraduate student researchers. He earned his B.S. and Ph.D. in Atmospheric and Oceanic Sciences from the University of Wisconsin, Madison and served as a Visiting Assistant Professor at Northern Illinois University (NIU) during the 2016-2017 academic year.

Dr. Liana Boop is passionate about sustainability and seeks to empower people to live more harmoniously with the environment. She is a trained geologist, holding a Ph.D. in Geology and a Professional Geologist licensure. Before joining Georgia Tech in 2024, she taught at a community college in Houston, Texas for nine years. Before joining academia, she worked in environmental and geological consulting, completing environmental and geophysical assessments. Her hobbies include exercising, hiking, kayaking, caving, knitting, attending live theatre performances, and cooking delicious plant-based foods.

Lecture	T/TH, 12:30 PM, Instructional Center 103
Lab	T, 3:30 PM, Clough 357
CRN (lecture- HP) **CRN (lab- HPL)**	89328 80761

ECON 4401 HP: Behavioral Economics

Dr. Whitney Buser 3 credit hours
Prerequisites: *ECON 2100* ***or*** *2101* ***or*** *2105* ***or*** *2106* 10 HP seats

Why do people fail to save for retirement? Why do some countries have very high organ donation rates while others have low rates? Why do we consistently make unhealthy decisions for ourselves despite promising ourselves we would do things differently? In this course, we will use behavioral economics–the blending of psychology and economics–to answer everyday puzzles like these. This course will join the fundamentals of human behavior with the rational choice models of economics to better understand decision making. Through reading primary experimental research, we will ask why individuals frequently make decisions that systematically depart from the predictions of standard economic models. Concepts such as probability weighting, reference dependence, priming, framing, and heuristics for decision making will be discussed. Students will learn to apply this conceptual framework to policy questions regarding retirement savings, financial behavior, health care, and consumerism. In addition to discussion of others' research, students will design, execute, analyze, and present their own primary experimental research.

Dr. Whitney Buser is an Academic Professional and Associate Director of Academic Programs in the School of Economics as Georgia Tech. Dr. Buser has published and presented research on gender differences in financial literacy, performance evaluation, confidence in mathematical abilities, and participation in academic discussions. Dr. Buser's work has appeared in *Sex Roles, Public Choice, and The Journal of Family and Economic Issues,* as well as other peer-reviewed publications. Further research interests include behavioral economics as well as formal and informal institutional impacts on policy and economic wellbeing. Prior to joining the faculty at Georgia Tech in 2020, Dr. Buser was the Chair of the Business and Public Policy Department at Young Harris College and as well as an Associate Professor of Economics.

Lecture	T/TH 12:30 PM Skiles 270
CRN	92212

ENGL 1101 HP1: English Composition I

Dr. Anwita Ghosh

3 credit hours
19 HP seats

TBD

Lecture	T/TH 12:30 PM Architecture West 260
CRN	89327

ENGL 1102 HP1: English Composition II

Dr. Leigh Elion
Prerequisite: *ENGL 1101*

3 credit hours
19 HP seats

TBD

Lecture	T/TH 2:00 PM Skiles 346
CRN	89251

ENGL 1102 HP2: English Composition II

Dr. Megan Fontenot 3 credit hours
Prerequisite: *ENGL 1101* 19 HP seats

TBD

Lecture	M/W 9:30 AM Clough123
CRN	91501

ENGL 1102 HP3: English Composition II

Dr. Jacqueline Kari
Prerequisite: *ENGL 1101*

3 credit hours
19 HP seats

TBD

Lecture	T/TH 3:30 PM Skiles 318
CRN	92474

ENGL 1102 HP4: English Composition II

Dr. Kylie Petrovich
Prerequisite: *ENGL 1101*

3 credit hours
19 HP seats

TBD

Lecture	T/TH 9:30 AM TBD
CRN	94487

ENGL 1102 HP5: English Composition II

Dr. Mandy Elizabeth Moore 3 credit hours
Prerequisite: *ENGL 1101* 19 HP seats

TBD

Lecture	M/W 2:00 PM Clough 125
CRN	90646

GT 1000 HP1: First Year Seminar

TBD 1 credit hour
Please note: *Restricted to first-year students.* 20 HP seats

This seminar course is designed to help you make a successful transition to college by becoming better acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Through engaging in discussion, exploration, and reflection, students will be able to build connections with other students, faculty, and staff and develop plans for their time at Tech.

Lecture	TH 9:30 AM Engineering Science & Mechanics G8
CRN	88503

GT 1000 HP2: First Year Seminar

TBD 1 credit hour
Please note: *Restricted to first-year students.* 20 HP seats

This seminar course is designed to help you make a successful transition to college by becoming better acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Through engaging in discussion, exploration, and reflection, students will be able to build connections with other students, faculty, and staff and develop plans for their time at Tech.

Lecture	T 12:30 PM Clough 323
CRN	84700

GT 1000 HP3: First Year Seminar

TBD 1 credit hour
Please note: *Restricted to first-year students.* 20 HP seats

This seminar course is designed to help you make a successful transition to college by becoming better acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Through engaging in discussion, exploration, and reflection, students will be able to build connections with other students, faculty, and staff and develop plans for their time at Tech.

Lecture	M 12:30 PM Swann 325
CRN	90724

GT 1000 HP4: First Year Seminar

TBD 1 credit hour
Please note: *Restricted to first-year students.* 20 HP seats

This seminar course is designed to help you make a successful transition to college by becoming better acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Through engaging in discussion, exploration, and reflection, students will be able to build connections with other students, faculty, and staff and develop plans for their time at Tech.

Lecture	W 12:30 PM Clough 323
CRN	94215

GT 2000 HP1: Transfer Seminar

TBD 1 credit hour
Please note: *Restricted to new transfer students.* 20 HP seats

This seminar course is designed to help you make a successful transition from your previous institution by becoming acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Students will be encouraged through research and reflection to further define their academic, professional, and personal goals and identify effective pathways to achieve them. Emphasis also will be placed on building personal and professional support networks and cultivating holistic well-being.

Lecture	M 12:30 PM Clough 323
CRN	88671

GT 2000 HP2: Transfer Seminar

TBD 1 credit hour
Please note: *Restricted to new transfer students.* 20 HP seats

This seminar course is designed to help you make a successful transition from your previous institution by becoming acquainted with the academic and social opportunities here at Georgia Tech. Through the course, you will acquire strategies that promote academic, social, and professional success. This is a highly interactive class that requires active student participation and working collaboratively in small groups.

Students will be encouraged through research and reflection to further define their academic, professional, and personal goals and identify effective pathways to achieve them. Emphasis also will be placed on building personal and professional support networks and cultivating holistic well-being.

Lecture	T 11:00 AM Swann 115
CRN	94216

GT 2030 HP: Progress and Service Forum

TBD 3 credit hours
Please note: *counts toward Award of JMHP Service Pathway.* 30 HP seats

Georgia Tech's motto, "Progress and Service", captures the institution's mission to prepare leaders (you!) who advance technology and improve the human condition. In this course, you will explore the nature of complex problems that impact humanity while investigating your own unique potential to impact these problems. Through interactions with faculty, peers, and community leaders, you will analyze these big issues from multiple perspectives, equipping you with greater insight into the roles and actions that enable leaders to make change.

Progress and Service Forum is a new course that serves as a Foundational Course for the new Leaders in Progress and Service program that is being launched as part of Georgia Tech's 2025 Quality Enhancement Plan. Pending faculty governance approval, the Leaders in Progress and Service program will include a proposed graduation distinction to be earned upon successful completion of a sequence including the foundational course, immersive learning, and participation in the Progress and Service Summit. Prof. Slieper will provide additional information on the opportunity during the first week of class.

We will be offering approximately five sections of GT 2030, with more information to be posted once the sections are added.

HTS 2015 HP: History of Sports in America

Dr. Johnny Smith 3 credit hours
Please note: *fulfills the Social Science requirement.* 15 HP seats

Dr. Johnny Smith is the Julius C. "Bud" Shaw Professor of Sports History. Smith's research and teaching explores United States history during the twentieth century. He is especially interested in the history of sports, popular culture, and political culture. He is currently writing a book about the history of the National Football League during the 1960s.

He has authored six books and has won multiple book honors: *Blood Brothers* received the North American Society for Sport History (NASSH) Book Award*; Choice* named *The Sons of Westwood* an "Outstanding Academic Title"; and the Society for American Baseball Research (SABR) recognized *War Fever* with the Larry Ritter Book Award. In 2021, Netflix released *Blood Brothers: Malcolm X and Muhammad Ali,* a feature documentary based on Smith's book.

His writing has appeared in the *Wall Street Journal*, *Washington Post*, *The Daily Beast*, *Slate*, *ESPN*, *Smithsonian Magazine*, and *The American Historian*, among others. He has also given interviews to national and international media outlets, including the New York Times, Boston Globe, Atlanta Journal-Constitution, Associated Press, Axios, Bloomberg, National Public Radio, Canadian Broadcasting Corporation, Christian Science Monitor, The Nation, ESPN, and The Athletic.

In 2017, Professor Smith was named a Distinguished Lecturer by the Organization of American Historians. He is also a two-time recipient of the *Journal of Sport History*'s Best Article Award (2009; 2018).

Lecture	M/W 9:30 AM Skiles 270
CRN	94175

HTS 2016 HP: Social Issues and Public Policy

Dr. Amy D'Unger 3 credit hours
Please note: *fulfills the Social Science requirement.* 25 HP seats

This course will examine a variety of issues considered to be "social problems." In order to do so, we must first understand how particular issues come to be considered "problems" in the first place, while other issues do not. We will begin with the constructionist perspective, which centers around one question: why do we recognize some social conditions as "problems" while simultaneously ignoring other conditions? Additionally, why do we recognize some social conditions as problems at one time, while during a later period we do not consider them problems?

After examining how things become social problems, we will be considering a variety of social issues in detail, including criminal justice and mass incarceration, the heroin epidemic in the United States, access to voting and racial redistricting, and involuntary sterilization. To do this, we will be using the latest social science research and "real world" examples from reputable journalistic sources

Dr. Amy D'Unger (Ph.D., Duke University, 1999) is a sociologist with interests in the areas of race, class, and gender; inequality; social policy; social control and eugenics; and crime. Her previous research has looked at the impact of neighborhood social disorganization, peer networks, family structures, and school ties on delinquency and crime over the life course.

She is currently researching the role of eugenic (involuntary) sterilization in the South as a tool of informal social control, particularly during the Civil Rights Movement. Dr. D'Unger has published in such journals as the *American Journal of Sociology*, the *Journal of Quantitative Criminology*, and the *Encyclopedia of Crime and Justice* on topics such as criminal careers, gender and offending, and feminist criminological theory. Her latest publication (summer 2025) on involuntary sterilization is in *Understanding Reproduction in Social Contexts*.

Dr. D'Unger has been recognized for excellence in academic advising by both Georgia Tech and the National Academic Advising Association, and has won teaching awards from both the Ivan Allen College of Liberal Arts and Georgia Tech. She is the past chair of the Division on Women and Crime of the American Society of Criminology. She joined the Honors Program in February 2022 and is excited to lead such a vibrant community. Dr. D'Unger also currently serves as the Immediate Past President of the Georgia Collegiate Honors Council and the Treasurer of the Southern Regional Honors Council.

Lecture	T/TH 9:30 AM Curran Street Deck 210 (LLC West Commons Classroom; 8th St.)
CRN	94034

INTA 3230 HP: Government and Politics of China

Dr. Philip Fei-Ling Wang
Please note: *fulfills the Social Science requirement. Counts toward Award of JMHP Global Engagement Pathway.*

3 credit hours
10 HP seats

Dr. Philip Fei-Ling Wang is a professor at Sam Nunn School of International Affairs. His research interests are comparative and international political economy, U.S.-East Asian relations, and East Asia and China studies. He has published eight books (two co-edited) in two languages, including *Organization through Division and Exclusion: China's Hukou System* (Stanford University Press. 2005), *"The China Trilogy" -- The China Order: Centralia, World Empire, and the Nature of Chinese Power* (2017), *The China Record: An Assessment of the People's Republic* (2023), and *The China Race: The Global Competition for the World Order* (2024) -- all by State University of New York (SUNY) Press. The China Trilogy has been published in both Traditional and Simplified Chinese. He has also published dozens of book chapters and journal articles in four languages.

He taught at the U.S. Military Academy (West Point) and U.S. Air Force Academy (Colorado Springs), and held visiting and adjunct/honorary positions in institutions like European University Institute in Italy, Sciences Po in France, National Sun Yat-sen University and Nat ional Taiwan University in Taiwan, National University of Singapore, Renmin University and Anhui Normal University in China, University of Macau, University of London, University of Tokyo, and Sungkyunkwan University and Yonsei University in Korea. He has guest-lectured in over 50 universities worldwide and appeared in many national and international news media such as Al Jazeera, AFP, AP, BBC, CNN, *The Financial Times*, *The New York Times*, Radio China International, *South China Morning Post,* VOA, *The Wall Street Journal*, and the Xinhua News Agency. He has had numerous research grants including a Minerva Chair grant, a Fulbright Senior Scholar grant and a Hitachi Fellowship. He is a member of the Council on Foreign Relations.

Lecture	T/TH 5:00 PM Skiles 254
CRN	TBD

KOR 3415 HP: Korean K-Pop, Film, and Drama

Dr. Keung Yoon Bae
Please note: *fulfills the Humanities requirement. Course is* ***taught in English****. Counts toward Award of JMHP Global Engagement Pathway.*

3 credit hours
8 HP seats

Dr. Keung Yoon Bae is Assistant Professor of Korean Studies at the School of Modern Languages. Her research examines the relationship between media production and state governance in Korea, across different industries and eras. Her most recent work examines ownership and governance over video games and competitive gaming culture in South Korea.

She has published writings on global video gaming culture and esports , with a focus on South Korea, in anthologies such as *Media technologies for work and play in East Asia* and *Introducing Korean Popular Culture;* she has also published articles on colonial Korean filmmakers (*Journal of Japanese and Korean Cinema*), and the advent of South Korean webcomics (*East Asian Journal of Popular Culture*).

Lecture:	T/TH 9:30 AM Skiles 311
CRN:	94526

LMC 3202 HP: Studies in Fiction

Dr. Perry Guevara 3 credit hours
Please note: *fulfills the Humanities requirement* 10 HP seats

Dr. Perry Guevara is Assistant Professor of Early Modern Literature in the School of Literature, Media, and Communication at the Georgia Institute of Technology. He specializes in cognitive literary studies, and his research brings together literature of the sixteenth and seventeenth centuries with neuroscience, ecology, and the history of medicine. His writing has appeared in *Public Books*, *Shakespeare Studies*, *Configurations*, *Ear ly Modern Culture*, *Renaissance Quarterly*, and in several edited collections.

Before coming to Georgia Tech, Dr. Guevara taught at Dominican University of California, where he co-founded the Health Humanities program and directed Performing Arts & Social Change, an undergraduate minor featuring a partnership with Marin Shakespeare Company's prison-theater program. He has also been a Visiting Scholar at the University of California, Berkeley's Center for Science, Technology, Medicine, and Society. He holds a Ph.D. from Emory University, M.A. from Georgetown University, and B.A. from the University of Alabama.

Lecture	M/W 2:00 PM Skiles 302
CRN	94551

LMC 3318 HP: Biomedicine and Culture

Dr. T. Hugh Crawford 3 credit hours
Please note: *fulfills the Humanities and Ethics requirements.* 10 HP seats

This course discusses the history of medicine and medical technologies from the 18th century to the present; literary and popular representations of health, disease, and the medical establishment; ethical issues related to medicine and public health; and cultural conditions affecting the development of medicine and medical technologies. Subjects include interpersonal conflicts between doctors and patients, the Tuskegee syphilis study and the establishment of bioethics, the race among researchers to discover the HIV virus causing AIDS, sustainability and public health, patients' rights, and genetic technology.

Dr. T. Hugh Crawford received his PhD in American Literature from Duke University. He joined the Georgia Tech faculty as an Associate Professor in the School of Literature, Media, and Communication in 1996. A specialist in the cultural studies of science and technology, he has published on literature and medicine, cinema and science, medical imaging technologies, the novels of Herman Melville, and the poetry of William Carlos Williams. He is past president of the Society for Literature, Science and the Arts, and former editor of *Configurations: a Journal of Science, Technology and Culture* published by the Johns Hopkins University Press.

Lecture	T/TH 12:30 PM Skiles 354
CRN	92258

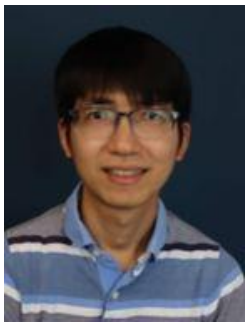
MATH 1551 HP: Differential Calculus
MATH 1551 HP1: Differential Calculus Studio

Dr. Thomas Tran 2 credit hours
Please note: *you must register for the lecture and studio section.* 23 HP seats
Prerequisites: *SAT Math score of 660* ***or*** *ACT Math score of 28* ***or*** *MATH 1113*

MATH 1551, Differential Calculus for functions of one variable, includes a study of limits, continuity, discontinuity, techniques of differentiation, derivatives of various classes of functions, and an introduction to antiderivatives. Additionally, it covers numerous applications of derivatives such as rates of change, linearization, Newton's method, maxima and minima, concavity, curve sketching, the Mean Value Theorem, related rates, and optimization problems.

As we collectively work throughout the course, here are some expectations for what students should be able to do with mathematical concepts:

- Master the understanding of expressions and graphs involving functions and their derivatives.
- Apply calculus concepts to solve real-world problems, such as optimization and related rates.
- Tackle quantities using differential calculus and interpret their meanings.
- Hone reasoning and communication skills.



Dr. Thomas Tran is a proud Yellow Jacket math-major alumnus who graduated in 2015 before earning his Ph.D. in Mathematics from Duke University in 2020. Following his doctoral studies, he completed postdoctoral training at the University of Kentucky in June 2023. Dr. Tran joined the School of Mathematics at Georgia Tech in July 2023 as an Academic Professional. In this role, he also serves as the Director of Mentoring, the Grading Coordinator, an academic advisor, and the course coordinator for MATH 1551 since Spring 2024.

Lecture	M/W 12:30 PM Howey L2
Studio	F 11:00 AM Skiles 156
CRN (lecture- HP) **CRN (studio- HP1)**	89441 89442

MATH 1554 HP: Linear Algebra
MATH 1554 HP1: Linear Algebra Studio

Dr. Cuyler Warnock 4 credit hours
Please note: *you must register for the lecture and studio section.* 25 HP seats
Prerequisites: *MATH 1113* ***or*** *MATH 1551* ***or*** *MATH 1552* ***or*** *SAT Math score of 600* ***or*** *ACT Math score of 26*

We will explore fundamental concepts of linear algebra including vectors, matrices, and systems of linear equations. Important decompositions and characteristics of matrices will be studied in depth including invertibility, eigenvalues and eigenvectors, the singular value decomposition and LU decomposition, Markov chains and the Google matrix, as well as orthogonal projections and their application to determine best-fit solutions to over-determined systems of linear equations. Students will also learn to apply linear algebra concepts to model, solve, and analyze real-world situations.

Dr. Cuyler Warnock is an Academic Professional in the School of Mathematics at Georgia Tech. He earned his Ph.D. at the University of South Carolina and conducts research on modular forms, particularly, how the Hecke operator permutes certain subspaces. Dr. Warnock has been teaching at Georgia Tech for one year and has loved every minute of it. In the fall, he will be the coordinator for MATH 1554. He enjoys solving logic and twisty puzzles. Feel free to stop by his office and try out his collection of twisty puzzles.

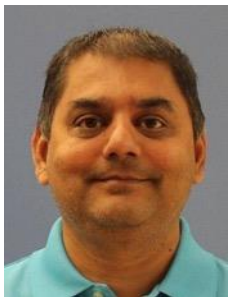
Lecture	M/W 8:00 AM Howey L2
Studio	T/TH 11:00 AM Skiles 156
CRN (lecture- HP) **CRN (studio- HP1)**	89456 89458

MATH 2552 HP: Differential Equations
MATH 2552 HP1: Differential Equations Studio

Dr. Karthikeya Sameer Kumar Mamillapalle 4 credit hours
Please note: *you must register for the lecture and studio section.* 24 HP seats
Prerequisites: *MATH 1551, MATH 1552, MATH 1553* ***or*** *MATH 1554,* ***and*** *SAT Math score of 600* ***or*** *ACT Math score of 26* ***or*** *MATH 1113*

Upon successful completion of this course, the student should be able to

1. Solve first order differential equations,
2. Solve systems of first order differential equations,
3. Solve second order linear differential equations,
4. Solve differential equations using Laplace transforms,
5. Solve some real-world problems by using differential equations,
6. Analyze the stability/instability of solutions of some linear and nonlinear differential equations, and
7. Solve first order differential equations using basic numerical methods.



Dr. Karthikeya Sameer Kumar Mamillapalle is an Academic Professional in the School of Mathematics and obtained Ph.D. in Applied Mathematics from the Florida Institute of Technology.

Lecture	T/TH 9:30 AM Howey L2
Studio	M/W 9:30 AM Skiles 246
CRN (lecture- HP) **CRN (studio- HP1)**	89459 89460

MATH 4803: Special Topics: Bridge to Math

Dr. Anton Leykin

3 credit hours
15 HP seats

No, this is not a pre-math remedial course: "bridge" is a popular card game. We will learn how to play, and then play. Studying parts of combinatorics and probability theory relevant to the game should help us play bridge better. We will split time between theory (both bridge and math) and practice (play and discussion). Bridge puzzles, math puzzles, mini-tournaments, post-game analysis -- all will be components of this course. The mini-tournaments will make use of online bridge platforms, which contributed to a surge in popularity of the game among young players in the last decade.

For more information about the class, visit the **Bridge to Math** website.

***Informal prerequisite:** some knowledge of discrete mathematics.*

Dr. Anton Leykin joined Georgia Tech in 2009. Since then, he has taught a variety of courses including special courses as the one being offered in the Honors Program. Anton's research interests cover several areas of mathematics and computer science adjacent to the broad topic of nonlinear algebraic computation.

Lecture	F 2:00 PM Clough 127
CRN	94089

MGT 4119 HP: Leading Teams

Dr. Ilya Gokhman 3 credit hours
Please note: *counts toward Award of JMHP Service Pathway.* 15 HP seats

Dr. Ilya Gokhman is a Lecturer in the Institute for Leadership and Social Impact, where he teaches a variety of courses related to leadership, teamwork, and collaboration. Prior to this role, he served as the Co-Director of Georgia Tech's Grand Challenges program, launched the Grand Challenges Global Experience (GCGX) study abroad program in South Africa, and taught courses on innovation, sustainability, and organization in the Jimmy and Rosalynn Carter School of Public Policy.

His research and teaching live at the intersection of collaboration, innovation, and social impact. Dr. Gokhman earned a Ph.D. in Media, Technology, and Society with a focus in Leadership and Teamwork from Northwestern University, an M.S. in Organizational Psychology from Georgia Tech, an MBA from University of Iowa, and degrees in Economics and Accounting from University of Georgia. Before academia, he worked in consulting, non-profits, and education in Atlanta, Chicago, Italy, and South Africa.

Lecture	M/W 12:30 PM Scheller 223
CRN	94460

PHIL 4176 HP: Environmental Ethics

Dr. Robert Kirkman 3 credit hours
Please note: *fulfills the Humanities and the Ethics requirements.* 10 HP seats

The course will consider a variety of environmental issues from a philosophical perspective. Among other philosophical questions, we will explore the nature of the relationship of humans to the natural world, the scope and source of our moral obligations to nature; the conservation movement and the justifiability of human intervention in ecological systems; the role of technology, politics, and activism in addressing climate crisis; the ethics of sustainability; the environmental justice movement and the impact of the climate crisis on marginalized groups. The course aims to equip students with critical thinking, reading, and argumentative skills that will allow them to approach and evaluate complex and globally pressing issues surrounding environmentalism, sustainability, and climate crisis deeply, critically, and responsibly.

Dr. Robert Kirkman is Associate Professor in the School of Public Policy at the Georgia Institute of Technology. His research hinges on further development of an experiential approach to practical ethics focused on the *project* as the basic units of analysis, where 'project' is understood as the activity of a living thing aimed at some goal. In addition to establishing the roots of this experiential approach in phenomenology, moral psychology, cognitive archaeology and evolutionary theory, Dr. Kirkman's has taken up the threads of his earlier work in environmental ethics with a new foray into the ethics of climate adaptation at the local and regional level. He also has also published work in engineering ethics, the ethics of technology and the teaching and learning of practical ethics. Dr. Kirkman is the author of *The Ethics of Metropolitan Growth: The Future of our Built Environment* (Continuum, 2010) and *Skeptical Environmentalism: The Limits of Philosophy and Science* (Indiana University Press, 2002).

Lecture	M/W 3:30 PM Skiles 317
CRN	89243

PHYS 2211 HP: Introduction to Physics I
PHYS 2211 HPL: Introduction to Physics I Lab

Dr. Emily Alicea-Muñoz 4 credit hours
Please note: *you must register for the lecture* ***and*** *lab section.* 30 HP seats
Prerequisite: *MATH 1552*

The M&I version of PHYS 2211 emphasizes the atomic nature of matter and integrates traditional mechanics with thermal physics. There is a strong emphasis on the Momentum Principle, the Energy Principle (the first law of thermodynamics), and the Angular Momentum Principle. The main goal of this course is to have students engage in a process central to science: the attempt to model a broad range of physical phenomena using a small set of powerful fundamental principles.

To aid in this goal students will develop computational models that predict the motion of interacting objects. These models will be made using the Visual Python programming language. The course also emphasizes the atomic structure of matter, especially the ball and spring model of solids, and photon emission and absorption in quantized systems.

Topics include:

- The different types of matter and interactions found in nature
- Using the momentum principle to predict future motion
- An atomic model of solids
- The momentum principle in moving reference frames
- Energy conservation including relativistic energy
- Energy in macroscopic systems including thermal energy
- Multi-particle systems and the center of mass
- Collisions including relativistic particle collisions
- Angular momentum and quantized angular momentum
- Energy quantization and photon emission and absorption

Dr. Emily Alicea-Muñoz is a native of Puerto Rico. She has a B.S. in Physics from the University of Puerto Rico at Mayagüez, an M.S. in Astronomy & Astrophysics from Penn State, and a Ph.D. in Physics with a doctoral minor in Higher Education from Georgia Tech. Before coming to Georgia Tech, she worked at NASA Goddard Space Flight Center where she studied cosmological black hole mergers. Dr. Alicea's research focuses on the professional development of physics graduate teaching assistants (GTAs). She is also interested in holistic assessments of teaching effectiveness, the development of expert-like problem-solving skills in introductory physics students, introductory astronomy education, and methods of informal education/outreach.

Lecture	M/W 9:30 AM Howey L1
Lab	M 3:30 PM Clough 382
CRN (lecture- HP) **CRN (lab- HPL)**	89629 88823

PHYS 2212 HP: Introduction to Physics II
PHYS 2211 HP1: Introduction to Physics II Lab

Dr. Ed Greco 4 credit hours

Please note: *you must register for the lecture* ***and*** *lab section.* 30 HP seats
Prerequisite: *PHYS 2211*

The M&I version of 2212 deals with electric and magnetic interactions, which are central to the structure of matter, to chemical and biological phenomena, and to the design and operation of most modern technology. The main goal of this course is to have you engage in a process central to science: the attempt to model a broad range of physical phenomena using a small set of powerful fundamental principles.

The specific focus is an introduction to field theory, in terms of the classical theory of electricity and magnetism. To aid in this goal you will develop computational models to visualize these fields and the interaction of charged particles. These models will be made using the Visual Python programming language (run in your browser at www.glowscript.org). The course also emphasizes the atomic structure of matter, especially the role of electrons and protons in matter.

Topics include:

- Matter and electric field, polarization of atomic matter
- Electric fields of distributed charges, setting up physical integrals, numerical integration
- Electric potential and energy for fields
- Magnetic field, atomic model of ferromagnetism
- A microscopic view of electric circuits, surface charge model
- Capacitors, Inductors, Resistors, and Batteries
- Magnetic force, including motional emf
- Patterns of field in space (Gauss's and Ampere's laws)
- Faraday's law and non-coulomb electric field
- Electromagnetic radiation, including its production by accelerated charges and re-radiation (classical interaction of light and matter)

Dr. Ed Greco is a native Floridian who moved to Atlanta in 2000 with his high school sweetheart and earned his Ph.D. in physics from Georgia Tech on low Reynolds number flow in 2008. Since joining the faculty at Tech, Ed has been active in the development of new curriculum for undergraduate students. When not in the classroom, he coordinates the outreach activities for the School of Physics and serves as radio show co-host "Fat Daddy Sorghum" on WREK's Inside the Black Box where he enjoys sharing his passion for science with the Atlanta community. Photography, Chess, Conchology, foraging for wild edibles, winemaking, and exploring Appalachia on a motorcycle are just a few of his varied pastimes. Mostly, however, he enjoys spending quality time with his loving family.

Lecture	M/W 12:30 PM Howey L4
Lab	M 3:30 PM Clough 375
CRN (lecture- HP) **CRN (lab- HPL)**	89628 81861

PHYS 2213 HP: Introduction to Modern Physics

Dr. Phillip First 3 credit hours

Prerequisite: *PHYS 2212* ***or*** *PHYS 2232* 7 HP seats

Modern Physics refers to the revolutionary developments in physics associated with Einstein's theories of Special and General Relativity and the Quantum Mechanics developed by Heisenberg, Schrodinger, Dirac and von Neumann in the first thirty years of the twentieth century. These ideas underpin our modern understanding of space, time, atoms, molecules, solids, stellar evolution, and the entire cosmos. Even philosophical thought is impacted by these developments. Moreover, modern technologies such as the transistor, the laser, light-emitting diodes, and the global positioning system are based on the fundamentally new concepts developed during this period.

We will occasionally incorporate computational models to visualize physical processes and to generate graphical output. These models will be made using the Visual Python programming language (you can run this in your browser at www.glowscript.org).

Topics include:

- Shortcomings of Classical Physics
- The Special Theory of Relativity (and a bit of the General Theory)
- Waves and Wave-Particle Duality
- The Schrödinger Equation and Quantum Mechanics
- Quantum Statistics: Fermions and Bosons
- Atomic Structure and the Periodic Table
- Molecules
- Crystalline Solids
- Semiconductors and Solid-State Electronics
- Structure of the Nucleus
- The Cosmos

Dr. Phillip First is a Professor in the School of Physics at Georgia Tech, specializing in experimental condensed matter and materials physics, particularly atomic-scale studies of surfaces, interfaces, and nanostructures. Professor First's research has advanced the fields of ballistic electron emission spectroscopy, metal film growth by molecular-beam epitaxy, nanocrystal imaging and spectroscopy, and epitaxial graphene. Currently, Professor First studies the electronic properties of polymers and 2D topological materials as well as the effect of solar-wind irradiation on lunar minerals, with implications for the formation of water on the Moon. His instructional contributions were recognized in 2017 when he was named a Hesburgh Teaching Fellow at Georgia Tech.

Lecture	T/TH 2:00 PM Mason 2117
CRN	90813

PSYC 1101 HP: General Psychology

Dr. Paul Verhaeghen
Please note: *fulfills the Social Science and the Ethics requirements.*

3 credit hours
30 HP seats

This course provides a survey of concepts, theories and research in psychology – the science that studies human behavior. We will cover a broad range of topics: How you can study mind and brain, how the brain works, what consciousness is good for, how we learn and remember things, what personality is, and how the social environment shapes your behavior.

Dr. Paul Verhaeghen is a Professor in the School of Psychology, studying attention and memory and how these change as people age; and now increasingly, mindfulness. He enjoys cooking, walking the dog, and sitting really still; he hates writing autobiographical blurbs.

Lecture	M/W 9:30 AM Coon 161
CRN	85481

PUBP 3000 HP: American Constitutional Issues

Mr. Jared Bruff, Esq. 3 credit hours
Please note: *fulfills the Social Science requirement and the US and GA Constitution Georgia Legislative Requirement (GLR).* 9 HP seats

This course will examine the American social and political system through the prism of Constitutional issues decided by the U.S. Supreme Court. We will read and analyze pivotal Supreme Court cases as we trace the evolution of the law on important Constitutional concepts. This course also covers the Georgia Constitution and Bill of Rights. Students will also study how Constitutional issues shaped significant historical events and are relevant to current events.

Mr. Jared Bruff is an Assistant Regional Counsel with the U.S. Department of Health and Human Services. He previously worked for the Federal Deposit Insurance Corporation and was an associate at Littler Mendelson. Jared started his legal career as a Judge Advocate in the U.S. Air Force, where he served in both prosecution and defense roles in military courts-martial. He has continued his service part-time in the Georgia Air National Guard, where he is a Staff Judge Advocate and holds the rank of Lieutenant Colonel. He received his JD and MBA from Georgia State University and his B.S. in Computer Science from the University of South Carolina.

Lecture	F 11:00 AM Skiles 308
CRN	89244

PUBP 3042 HP: Data Science for Policy

Dr. Omar Asensio 3 credit hours
Please note: *fulfills the Social Science requirement*. 15 HP seats

This course provides an introduction to policy analytics. Students will gain hands-on experience with data discovery, measurement, field testing and policy evaluation, including data ethics and human subjects protections. Students will explore modern analytical methods for causal inference and prediction, including randomized social experiments, observational studies with real-world datasets, and machine learning applications. At the end of the course, students will participate in a national data challenge posed by a partner government agency that is integrated into final student projects.

Dr. Omar I. Asensio is an Associate Professor in the School of Public Policy and Director of the Data Science & Policy Lab at Georgia Tech. His research focuses on the intersection between big data and public policy, with applications to energy systems and consumer behavior, smart cities, resource conservation, sustainability, and machine learning in transportation and mobility. Dr. Asensio's research has been published in leading journals such as *Nature Energy*, Nature Sustainability and PNAS, and featured in NBC News, CBS radio, NPR, *Scientific American*, the *Economic Times* and the *Washington Post*.

Dr. Asensio's research has also been featured in policy advisory communications by NSF Public Affairs, the European Commission, the World Bank and national governments including the UK and the IndiaAI initiative. He is a recipient of the National Science Foundation CAREER award, the Association for Public Policy Analysis and Management (APPAM) 40-for-40 fellowship, and the ONE-NBS Research Impact on Practice award by the Academy of Management ONE Division.

He holds a doctorate in environmental science and engineering from UCLA with specialties in economics. Dr. Asensio is a faculty participant in the Research University Alliance (RUA) Research Exchange and is engaged in multiple activities to increase the representation of women and under- represented students and professionals in STEM fields.

Lecture	M/W 5:00 PM Clough 262
CRN	92565

SPAN 3260 HP: Identity in Hispanic Literature

Dr. Kelly Comfort
Prerequisites: *SPAN 2002 or AP/IB equivalent*
Please note: *fulfills the Humanities requirement. Course is* ***taught in Spanish****. Counts toward Award of JMHP Global Engagement Pathway.*

3 credit hours
8 HP seats

In this course, we will read a selection of poetry, short stories, plays, essays, and novels and view one film from the past century of Latin American literature and explore the concept of identity formation in a variety of forms. Unit one treats identity in terms of race, ethnicity, gender, and class. Unit two explores existential(ist) identity. Unit three examines temporal and spatial identity. Unit four delves into the relationship between political and sexual identity. The goals of this class are threefold: to expose students to an important selection of twentieth-century Latin American literature and to introduce key concepts of Latin American culture and history; to hone reading and interpretive abilities specifically and critical thinking skills generally; and to improve written and oral communication through essay assignments and class presentations. Class taught in Spanish.

Dr. Kelly Comfort received her Ph.D. in Comparative Literature with a designated emphasis in Critical Theory from the University of California, Davis. She joined the Georgia Tech faculty in 2005. A specialist in Latin American literature and transatlantic modernisms, Dr. Comfort's research agenda focuses primarily on the intersections between Latin American modernismo and contemporaneous turn-of-the-century literary movements in Europe such as aestheticism and decadence. She is the author of *Cien años de identidad: Introducción a la literatura latinoamericana del siglo XX*, a textbook and anthology on which this HP course is based.

Lecture:	F 11:00 AM Swann 115
CRN:	88448