Context:

Most faculty and students are unaware of the breadth of sustainability research and education ongoing at Georgia Tech, and few external sponsors understand the breadth and depth.

- As of June 2019, there are more than 300 active sustainability relevant projects ongoing at Georgia Tech, representing more than $100MM in externally sponsored research led by more than 180 unique principal investigators. See Figure 1 and appendices.
- In the 2018/2019 Academic Year, 160 courses were affiliated with Serve-Learn-Sustain taught by 112 unique instructors. See Figure 2 and appendices.

Individual PI and small collaborative sustainability relevant research investigations are succeeding, but large collaborative sustainability relevant research efforts are underperforming.

- Sustainability relevant research projects account for 9% of all active research projects, but only 5% of all award funding.
- The average funded award size of all active research projects is $680,547, while the average size of active sustainability relevant research projects is $362,028.

Georgia Tech’s researchers are actively addressing the biggest of the big sustainability problems (e.g., global warming, environmental justice, clean water and food, renewable energy), but...

Big problems need BIG RESEARCH!
Figure 1. Wordcloud constructed from titles of 320 active sustainability relevant research projects ongoing at Georgia Tech as of June 2019.

Figure 2. Wordcloud constructed from titles of 160 Serve-Learn-Sustain affiliated courses in the 2018-2019 Academic Year (Summer, Fall, and Spring).
Objectives of the Showcase:

- To assemble, catalogue, make accessible, and make available a complete portfolio of sustainability relevant research and education programs, projects, courses, personnel, and sponsors ongoing at Georgia Tech inclusive of all 6 Colleges, GTRI, the 11 Interdisciplinary Research Institutes, and all other Centers and Laboratories;
- To increase internal and external awareness of individual and organizational interests, capabilities, and accomplishments in sustainability relevant research and education;
- To foster and strengthen collaborative and pre-collaborative relationships among investigators, prospective partners, and with potential sponsors;
- To increase research readiness by streamlining team building and proposal development; and
- To provide tangible products (e.g., portfolios, videos, whitepapers, databases, contacts, lists) to investigators and instructors that can be leveraged for direct and immediate personal and professional benefit.

Desired Outcomes:

For faculty:

- Participating faculty will connect with other faculty (prospective collaborators), students (prospective research assistants), and representatives from external organizations (prospective sponsors and partners).
- Faculty will be better prepared to develop highly competitive proposals, especially large centers and training grants (i.e., > $1MM and involving two or more units AND five or more investigators).
- Faculty will shape the direction of Georgia Tech’s sustainability research and education strategy AND investments.

For Georgia Tech:

- Administrators (e.g., President, Provost, EVPR, Deans, School Chairs, IRI Directors) will be better advised how to support and leverage sustainability research and education activities.
- Strategies will emerge that capitalize on past successes, current capabilities, and future aspirations.
- Networks and “network effects” among individuals, groups, projects, courses, ideas, trends, partners, and sponsors will reveal “Institutional-scale” strengths and weaknesses.
- Insight will be gained re: sponsor funding (Who? How much? In support of what?) and student interest (Courses? Curriculum? Pedagogy? Instructors?).
For external partners:

- **Partners will be introduced** to the full scope and scale of ongoing sustainability research and education, and the individuals, teams, and next generation of talent conducting it.
- **Partners can provide input on the direction** of Georgia Tech’s sustainability research and education strategy AND investments.
- **Partners may encounter insight** that is useful for strategic positioning in new or growing markets or for leveraging their own assets and activities.

For students:

- **Students will connect** with faculty conducting research or teaching courses of mutual interest, and with prospective future employers.
- **Students will help shape the direction** of Georgia Tech’s sustainability research and education strategy AND investments.

Other benefits:

- **Introduction of the Kendeda Building for Innovative Sustainable Design** (aka, Living Building) as a unique campus asset for enabling sustainability research and education.

**Structure / Format:**

- **3 Full days:** Monday October 28 – Wednesday October 30, 2019, subdivided into 6 half day sessions:
  

  1b. Organizations and Institutions: Governance, Decision Making, Planning, Regulation, Investment, Markets


  3b. Future Vision: invited (TBD)

- **Individual TED-style or Lightening talks:** main stage; 5 to 15 minutes; highly engaging story-form; general audience; well-rehearsed; high quality / professionally recorded; archived and widely shared via all web and social media channels; provided to speaker at no charge and free of any usage restrictions
Panel discussions: side rooms; concurrent with TED talks; goal: generate whitepapers

- Networking lunches, breaks, receptions: maximize “collisions;” small group interactions (2-5 people); socialization is as important as scientific exchange
- Keynote speakers (n=3 to 6): main stage; 30 minutes; visionaries/experts/provocateurs
- Posters: scattered around Living Building (indoor and outdoor)
- Prior to Showcase, all faculty participants must submit:
  1. 2-page NSF style Biosketch (pdf)
  2. NSF style Current & Pending form (pdf)
  3. Abstract(s) of current or recent project, paper, proposal, course, or topic of interest: 250 words max; may submit more than one
  4. Up to three most recent papers, research products, or course syllabi
- Prior to Showcase make available workshops for presenting/storytelling/communicating
- Compilation of materials submitted + TED-style videos + generated whitepapers will constitute the “Complete Portfolio of Georgia Tech Sustainability Research and Education, c. 2019”

Participants (INCOMPLETE: Please forgive omissions):

Faculty (total 411): compiled from GT Intranet Contracting Officers Log (ICOL) of active sustainability relevant research awards PIs and Co-PIs (as of June 2019), lists of Serve-Learn-Sustain (SLS) Fellows, instructors of SLS affiliated courses in the 2018-2019 AY, and other known sources. See Appendices.

Said Abdel-Khalik   Annalisa Bracco   George Cokkinides   Ameet Doshi
Melissa Aberle-Grasse Christian Braneon Saba Colakoglu Thomas Douthat
Shabbir Ahmed Rafael Bras Kyle Collins Bill Drummond
Cyrus Aidun Bert Bras Kelly Comfort Lane Duncan
Joseph Aldinger Douglas Britton Samuel Coogan Scott Duncan
Maria Almanza Joseph Brown K. Daniel Cooksey Ellen Dunham-Jones
Dan Amsterdam Marilyn Brown Thomas Hugh Crawford Magnus Egerstedt
Julie Ancis Jason Brown John Crittenden Else-Marie Ulrika
Rosa Arriaga Kate Pride Brown Richard Dagenhart Egertsdotter
Chloe Arson Carrie Bruce Sheng Dai Ceyhun Eksin
Omar Isaac Asensio Susan Burns Wayne Daley Michael Elliott
Baabak Ashuri Hongnan Cao Lizzanne De Stefano Benjamin Emerson
Godfried Augenbroe Kevin Caravati David Demory Sandra Enciso
Michael Balchansos Richard Catrambone Shijie Deng Alper Erturk
Rahul Basole Maria Ceballos Yulin Deng Michael Evans
Satish Bastola Michael Chang Yi Deng Michael Farrell
Stephen Beckett Kristina Chatfield Lizanne De Stefano Alice Favero
David Berendes Duen Horng Chau Duetae Shatakshee Dhongde Ken Ferrier
Michael Best HaiLong Chen Claudio Di Leo M.G. Finn
Justin Biddle Yao Chen Antonio Diaz Rebekah Fitzsimmons
Christopher Blackburn Yongsheang Chen Bistra Dilkina Steve French
Kamau Bobb Yury Chernoff Carl DiSalvo James Frost
Andreas Bommarius Yongkwan Cho Betsy DiSalvo Alberto Fuentes
Jason Borenstein Giovanni Circella Deepak Divan Richard Fujimoto
Thomas Boston Jennifer Clark Danielle Dixon Tom Fuller
Nisha Botchwye Russell Clark William Alan Doolittle Michael Gamble
Fani Boukouvala Kim Cobb
Ravi Subramanian  | Santosh Vempala  | Joshua Weitz  | Eunhwa Yang  
Wenting Sun  | Germán Vergara  | Timothy Welch  | Shannon Yee  
Andy Sun  | Richard Vuduc  | Jamie White  | Jeannette Yen  
Madhavan Swaminathan  | Brent Wagner  | Frank Wickstead  | Woonhong Yeo  
Jimmy Tai  | Catherine Walker  | Lauren Wilcox  | Sotira Yiacoumi  
Yuanzhi Tang  | Robert Wallace  | Angus Wilkinson  | Jan Youtie  
Vyacheslav Tatarskii  | Krista Walton  | Loren Williams  | Ruthie Yow  
John Taylor  | Hsiang-Jui Wang  | Linda Wills  | Shimeng Yu  
David Taylor  | Jingfeng Wang  | Joycelyn Wilson  | Gieb Yushin  
Cassandra Telenko  | Yang Wang  | Bill Winders  | Ellen Zegura  
Robert Thomas  | Zhaohua Wang  | C. Wong  | Ge Zhang  
Valerie Thomas  | Yuhang Wang  | Jesse Woo  | Ying Zhang  
Iris Tien  | Kari Watkins  | Brian Woodall  | Zhuomin Zhang  
Diana Tiernan  | Rebecca Watts Hull  | David Wu  | Fumin Zhang  
Bill Todd  | Daniel Weagley  | Yi-Ching Wu  | Chen Zhou  
Beril Toktay  | Rodney Weber  | Xing Xie  | Haomin Zhou  
Yi-Chang Tsai  | Emily Weigel  | Yao Xie  | Hui Zhu  
Pascal Van Hentenryck  | Malte Weiland  | Jie Xu  |  

Administration:

President Cabrera  | Vice-Provost for Graduate Education Ferri  
Provost Bras  | Vice-Provost for Undergraduate Education Potts  
EVPR Abdallah  | Vice-President Interdisciplinary Research Beyah  
Dean McLaughlin  | Vice-President Research Operations Butera  
Dean Lozier  | 6 Associate Deans of Research  
Dean Royster  | 6 Associate Deans for Graduate Studies  
Dean Galil  | 6 Associate Deans of Undergraduate Studies  
Dean French  | 11 Interdisciplinary Research Institute Directors  
Dean Alavi  | 30 School Chairs  
GTRI Interim Director Weiss

External: **Solicit recommendations and contacts from faculty.**

**Government:**

Cities  
Counties  
State Agencies  
Federal Agencies  
Military  
Elected Officials  
Research Funding

**Nonprofits and NGOs:**

| Local  | Ray C. Anderson  | Architecture-Engineering-Construction  |
| Regional  | Turner  | Information-Communication-Telecom  |
| National  | Kendeda  | Manufacturing  |
| Global  | Gates  | Logistics  |
| Social & Equity  |  | Hospitality  |
| Economic  |  | Transportation  |
| Environmental  |  | Energy  |

**Foundations:**

| Ray C. Anderson  |  |
| Turner  |  |
| Kendeda  |  |
| Gates  |  |

**Private Sector:**

| Architecture-Engineering-Construction  |  |
| Information-Communication-Telecom  |  |
| Manufacturing  |  |
| Logistics  |  |
| Hospitality  |  |
| Transportation  |  |
| Energy  |  |
| Healthcare  |  |

**Students:** **Ask faculty participants to invite.**
Appendices

1. Active sustainability relevant research projects as of June 2019.
4. 2017 Serve-Learn-Sustain Smart Cities, Connected Communities Fellows
5. 2017 Serve-Learn-Sustain Energy Systems for Sustainable Communities Fellows
6. 2018 Serve-Learn-Sustain Climate Change Fellows
7. 2019 Serve-Learn-Sustain Sustainable Development Goals Fellows
8. Brook Byers Professors and BBISS Fellows
EFFICIENT AIRCRAFT SYSTEMS TECHNOLOGY ROADMAP DEVELOPMENT PROJECT

Investigations of Stoichiometry and Reaction Kinetics in the Atmosphere... 
Active 11/20/2014 EMBARR College of Engineering Aerospace Systems Design Lab MAWIL, DIRKRI

MOBILITY RESEARCH FOR FUTURE VEHICLES: METHODOLOGY TO CREATE A UNIFIED...

Alternative Jet Fuels & Environment Center of Excellence (E2C)

Active 10/30/2016 NATIONAL INSTITUTE OF AEROSPACE College of Engineering Aerospace Systems Design Lab MAWIL, DIRKRI SYSTEMS ENGINEERING

GEMS PROJECT PI#: 472

Active 10/01/2017 GEORGIA EMERGENCY MGMT. & HOMELAND SECURITY AGCY Institute of Computing Georgia Tech Research Institute MCKAY, LEIGH SECURITY, PLANNING, ENGINEERING SUPPORT (E3)

ARC-UCS THEDA/BP SUPPORT CONTRACT ADD-ON

Active 08/01/2018 ATLANTA URBAN AREA SECURITY INITIATIVE (IAS) College of Engineering Georgia Tech Research Institute MCKAY, LEIGH

OVERCOMING KINETIC LIMITATIONS IN MATERIALS AND 4X INTERFACES

Active 10/01/2018 NASA College of Engineering Mechanical Engineering MCCONWELL, MATTHEW TRANSMISSION (BATTERIES)

NATIONAL SCIENCE FOUNDATION (NSF)

COORDINATING RESEARCH COUNCIL INC

PAULINO, GLAUCIO CENTER FOR THE ADVANCEMENT OF SCIENCE IN SPACE

UNIVERSITY OF MASSACHUSETTS

GELLAR-LAWRE, HOLLY

GELISSION, SANDRA

EVALUATION OF FACTORS INFLUENCING ROUNDABOUT PERFORMANCE

Active 03/01/2019 IU School of Public and Environmental Affairs Public Policy MEYER, JULIA (KENTUCKY), [BROOKLYN]

E2CDA: TYPE I: COLLABORATIVE RESEARCH: ENERGY EFFICIENT ARTIFICIAL IN...

Active 09/15/2017 NATIONAL SCIENCE FOUNDATION (NSF) College of Engineering Electrical & Computer Eng MUKHOPADHYAY, SABIR [DEVICES], [NEURAL], [RESEARCH]

DATA INTEGRATION METHODS FOR ENVIRONMENTAL EXPOSURES WITH APPLICATION...

Active 09/01/2018 EMMERI UNIVERSITY College of Engineering Civil & Environmental Eng MULLHOLLAND, JAMES [HEALTH], [AIR POLLUTION], [DOE]

AN AIRBORNE INVESTIGATION OF AEROSOL AND CLOUD PROPERTIES...

Active 02/01/2016 NASA College of Sciences Earth & Atmospheric Sciences NEVINS, ATHANASIOS [MEASUREMENTS], [URBAN], [AEROSOL]

IN-SITE AEROSOL CLOUD, AND METEOROLOGICAL MEASUREMENTS: CLOUD AND AEROSOL...

Active 02/27/2018 NASA College of Sciences Earth & Atmospheric Sciences NEVINS, ATHANASIOS [ARCHITECT], [LC9], [AEROSOL]

A TALE OF TWO CITIES: LAB-IN-THE-FIELD STUDIES ON SECONDARY ORGANIC AEROSOLS...

Active 10/17/2018 NATIONAL SCIENCE FOUNDATION (NSF) College of Engineering Chemical & Biomedical Eng NING, NING

OPTIMIZING THE SELECTION AND USE OF FIRE WEATHER INFORMATION...

Active 06/10/2015 UD Dept of Commerce College of Engineering Chemical & Biomedical Eng NING, NING

CONNECTING MULTIVALID TOPIC OPTIMIZATION AND ADAPTIVE MANUFACTURING...

Active 05/27/2015 US PULTRY & EG ASIV College of Engineering Chemical & Biomedical Eng NING, NING [PRESCRIBED BURNING], [AIR QUALITY]

TARGET AND EFFECT OF COMMERCIAL PERACIDIC ACID SOLUTIONS IN FROZEN PROCE...

Active 03/19/2018 COLLABORATIVE RESEARCH: STATISTICAL LEARNING DRIVING SIMULATOR... 
College of Engineering Civil & Environmental Eng PENTA, SERGINAS

MODELING AND SIMULATION FOR CONNECTED AND AUTONOMOUS TRANSPORTATION...

Active 01/25/2019 PURDUE UNIVERSITY College of Engineering Electrical & Computer Eng PERRIE, JOHN [ELECTRICAL] [SOFTWARE]

AMAC INTERNATIONAL MEMBERSHIP - THE AU HUSSEIN SOCIETY (AHS) FOR TRAINING...

10/17/2016 THE AU HUSSEIN SOCIETY FOR TRAINING AND INCLUSION College of Design AMAC Accessibility PHILLIPS, CAROLYN [SCHOLARSHIPS], [ACCOMMODATIONS], [ASSISTIVE TECHNOLOGY]

ABBAS, KHAN; PLATT, MAGAN; ARNOLD, CRAIG

BLOOM, NATHAN; REYNOLDS, JONATHAN

BRENNER, JUSTIN, VENKAPALLI, SATISH

CORTES, IGNACIO; PALMAS, JAVIER; VALLADARES, JOSE RAMON

DIETZ, CHRISTIAN; GOMES, PAULO

HALL, RUSSELL, ARRAIBET; WEBER, RODNEY

INSTITUTIONAL TRANSFORMATION: SERVICE LEARNING, COMMUNITY ENGAGEMENT AND...

Active 09/01/2016 NATIONAL SCIENCE FOUNDATION (NSF) College of Engineering Computer Eng POTTS, COLIN [SUSTAIN], [LEARN], [SERVE]

RCN: ADAPTIVE MANAGEMENT AND USE OF RESIDENTIAL INFRASTRUCTURE IN SMART CITIES

Active 09/15/2015 College of Computing College of Engineering School of Computer Science PAL, CALDON

E2CDA: TYPE I - EXTREMELY ENERGY EFFICIENT COLLECTIVE ELECTRONICS (EXCEL)...

Active 09/02/2016 UNIVERSITY OF NOTRE DAME College of Engineering Electrical & Computer Eng RAYCINDHRIR, ABHIT [ELECTRICAL], [COMPUTATION]

APPLICATIONS AND SYSTEMS DRIVEN CENTER FOR ENERGY-EFFICIENT INTEGRATION...

Active 02/01/2018 UNIVERSITY OF NOTRE DAME College of Engineering Electrical & Computer Eng RAYCINDHRIR, ABHIT [ELECTRICAL], [COMPUTATION]

E2CDA: TYPE I - EXTREMELY ENERGY EFFICIENT COLLECTIVE ELECTRONICS (EXCEL)...

Active 10/01/2016 UNIVERSITY OF NOTRE DAME College of Engineering Electrical & Computer Eng RAYCINDHRIR, ABHIT [ELECTRICAL], [COMPUTATION]

AI CHALLENGE: USE OF PHOTOVOLTAIC PV SYSTEMS IN RESIDENCES AND COMMUNAL BUILDINGS...

Active 03/15/2018 COLLABORATIVE RESEARCH: CENTER FOR THE ADVANCEMENT OF SCIENCE IN TECHNOLOGY'S REAL-WORLD V... 
College of Engineering Electrical & Computer Eng RAYCINDHRIR, ABHIT

E2CDA: TYPE I: COLLABORATIVE RESEARCH: ENERGY EFFICIENT ARTIFICIAL IN...

Active 09/15/2017 NATIONAL SCIENCE FOUNDATION (NSF) College of Engineering Electrical & Computer Eng RAYCINDHRIR, ABHIT [ELECTRICAL], [COMPUTATION]

DATA INTEGRATION METHODS FOR ENVIRONMENTAL EXPOSURES WITH APPLICATION...

Active 09/01/2018 EMMERI UNIVERSITY College of Engineering Civil & Environmental Eng RAYCINDHRIR, ABHIT [ELECTRICAL], [COMPUTATION]

TENSEGITY CALIBRATING THE CHROMIUM ISOTOPE SYSTEM AS A TRACE OF ATMOSPHERIC OXYGEN.

Active 06/03/2016 YALE UNIVERSITY College of Sciences Earth & Atmospheric Sciences REINHARD, CHRISTOPHER [EARTH SCIENCES]

SENSING TRENDS CATEGORIZING FOR STRATEGIES TO CONTROLLED HOPPING ON SMALL SOLAR... 
Active 04/01/2017 NAVY ACAD OF SCIENCES College of Engineering Aerospace Engineering RIZZI, JULIAN

MOU BETWEEN GE, GAME, GA DNR, AND ATDC... 
Active 12/30/2002 GA DEPT. NATURAL RESOURCES College of Engineering Natural Resources RODGERS, MICHAEL [SECURITY], [PLANNING], [ENGINEERING SUPPORT]

PUBLIC INVOLVEMENT/EDUCATION ON ALTERNATIVE INTERSECTION/INTERCHANGE DESIGN

Active 09/30/2016 GEORGIA POWER COMPANY College of Engineering Civil & Environmental Eng ROY, MANU; ARSON, CHLOE

TECHNOLOGY DEVELOPMENT FOR 25% EFFICIENCY PER SOLAR CELLS

Active 01/01/2018 GEORGIA POWER COMPANY College of Engineering Civil & Environmental Eng ROY, MANU; ARSON, CHLOE

MULTIMODAL PLANNING AT THE MULTI-JURISDICTIONAL SCALE, PHASE 2

Active 04/26/2018 AMERICAN PLANNING ASSOCIATION College of Design ROY, MANU; ARSON, CHLOE [P-FORCE SOLAR CELLS]

PUBLIC INVOLVEMENT/EDUCATION ON ALTERNATIVE INTERSECTION/INTERCHANGE DESIGN

Active 04/01/2017 NAVY ACAD OF SCIENCES College of Engineering Aerospace Engineering RIZZI, JULIAN

MOU BETWEEN GE, GAME, GA DNR, AND ATDC... 
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MULTIMODAL PLANNING AT THE MULTI-JURISDICTIONAL SCALE, PHASE 2

Active 04/26/2018 AMERICAN PLANNING ASSOCIATION College of Design ROY, MANU; ARSON, CHLOE [P-FORCE SOLAR CELLS]
INFLUENCE OF THE BROADBAND OCEAN ATMOSPHERIC ENERGY SPECTRUM ON FLIGHT DISCOMFORT - PART 2: HUMAN PERCEPTION OF PATTERNITY

MULTI-FORT AUTONOMOUS RECONFIGURABLE SOLAR-POWER-PLANT (MARS) - NON-TRADITIONAL VEHICLE DESIGN FOR MACHINE LEARNING

REAL-TIME HARDWARE-IN-THE-LOOP SIMULATION SET-UP FOR AUTOMOTIVE SYSTEMS

FLEET MANAGEMENT OF LARGE-SCALE CONNECTED AND AUTONOMOUS VEHICLES IN EX.

AVG V.2.0: IDENTIFICATION AND QUANTIFICATION OF REGULAR TRAFFIC ENVELOPES TO JUST-IN-TIME DELIVERY FROM FORD TO ORDER-TO-DISCOVER AN EMBRIDGE INVESTIGATION INTO THE COLLAPSE...

CONVEXIT OF EARTH'S DYNAMICS: EFFECTS OF SALTY FRESHWATER ON THE EARTH'S DYNAMICS - PHASE II: THE LITTLE BUCK EARTH'S LIFER"RANGER

MELTING AT THAWLATES GROUNDING ZONE AND ITS CONTROL ON SEA LEVEL...

NEW YORK UNIVERSITY

CPS: MEDIUM: COLLABORATIVE RESEARCH: BUILDING INFORMATION, INHABITANT...

SOUTHEAST RESEARCH INSTITUTE

EXAMINING THE USE OF 3D PRINTING TO REDUCE THE EMISSIONS OF 3D PRINTED OBJECTS

APPLICATIONS OF DATA SCIENCE METHODS TO GAS TURBINE PERFORMANCE...

MORS MARINE LABORATORY

STRAIGHT TANGLED PATHS TO AN INTEGRATED, TUNABLE, AND SUSTAINABLE MAN...

SOUTHWEST RESEARCH INSTITUTE

OLIVE OIL - INVESTIGATING THE USE OF OLIVE OIL AS A SOURCE OF OIL FOR THE LECHER IN RAPID SLOW-PACE EDDYumba...MELTING OF ICE;

THE DEVELOPMENT OF A NEW ALGORITHM FOR THE DETECTION AND MODELING...

DEVELOPMENT OF A HIGH-FUEL CONSUMPTION TURBINES WITH CO2 DILUTION FOR SUPERCRITICAL CONDITIONS

ACTIVE土耳其

APPLICATIONS OF OUTDOOR ENVIRONMENTS TO SUSTAINABLE URBAN INFRASTRUCTURE

RESEARCH NETWORK FOR SUSTAINABLE URBAN INFRASTRUCTURE

NATIONAL SCIENCE FOUNDATION (NSF)

Pierzchala, Radoslaw

STEWART, LAUREN

TSAI, YI-CHANG

SCHMIDT, BRITNEY

WANG, YUHANG

STENNPORT, ANNA

WATKINS, KARI

TSAI, YI-CHANG

SPENCER, CHRISTINE

SCHMIDT, BRITNEY

TAYLOR, JOHN

WANG, YANG

WANG, YUHANG

GARROW, LAURIE;MULHOLLAND, JEFFREY;RODGERS, MICHAEL;HUNTER, MICHAEL;WANG, YUHANG;ZHANG, YING;ZHENG, BO;WU, YI-CHING;WANG, ZHAOHUA

CALHOUN CRITICAL ZONE OBSERVATORY - CRITICAL ZONE EVOLUTION, DISTURBANCE...

UNDERSTANDING PHOTOCHEMISTRY AND EXPORT OF OZONE AND ITS PRECURSORS. . .

ASSESSMENTS OF THE IMPACT OF TROPOSPHERIC AEROSOLS ON ACTINIC FLUXES, PAR,

THE EFFECT OF AMMONIA ON ORGANIC AEROSOLS IN A CHANGING...

THE ANXIETY OF ICE: ARCTIC CINEMAS OF CLIMATE CHANGE

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<td>Earth &amp; Atmospheric Sciences</td>
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<td>NASA, College of Sciences, Earth &amp; Atmospheric Sciences</td>
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<td>02/01/2019</td>
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<td>Civil &amp; Environmental Engr</td>
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<td>NATIONAL WATER RESEARCH INSTITUTE</td>
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<td>College of Engineering</td>
<td>Civil &amp; Environmental Engr</td>
<td>XIE, XING</td>
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<td>SE COASTAL OCEAN OBSERVING REGIONAL ASSN</td>
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<td>College of Engineering</td>
<td>Geographic Info Systems, Ctr</td>
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<td>UNIVERSITY OF GEORGIA</td>
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<td>College of Engineering</td>
<td>Mechanical Engineering</td>
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<td>US DEPT OF ENERGY</td>
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# Affiliated Courses

**Request Course Affiliation**

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**Leadership for Social Good (Central and Eastern Europe)**  
MGT 4191/92, MGT 4611, MGT 4803

*Dori Pap*  
Study Abroad

![Prague Skyline](https://sls.gatech.edu/affiliated-courses?field_semester_tid=138&field_college_tid=All&field_related_big_ideas_tid=All&field_course_type_tid=All&field...  

[Summer 2019, Summer 2018, Summer 2017](https://sls.gatech.edu/affiliated-courses?field_semester_tid=138&field_college_tid=All&field_related_big_ideas_tid=All&field_course_type_tid=All&field...
Language for Business and Technology (LBAT II): Germany
GRMN 3696
Britta Kallin
Study Abroad

Japan Summer Program in Sustainable Development
Brian Woodall
Study Abroad
Urban Transportation

CP 4310

Amit Kumar

Affiliated

This course is an introduction to urban passenger transportation policy and planning in the US with a sustainability focus.

Environmental Ethics

PHIL 4176 RK

Robert Kirkman

Affiliated

This is a practical course in environmental decision making in response to complex, open-ended problem situations.

Proctor Creek Wildlife Assessment Course

BIOL 4695
Emily Weigel
Affiliated
The U.S. Fish and Wildlife Service is collaborating with Georgia Tech's College of Sciences and Serve-Learn-Sustain Program to create a summer course that introduces students to ecological monitoring techniques through collecting wildlife data within the Proctor Creek watershed.

Spain: Language for Business and Technology

SPAN 3694, SPAN 4693
Kelly Comfort
Study Abroad
Sustainable Development and Climate Change: A Multidisciplinary Program in Italy

Alice Favero, Emanuele Massetti
Study Abroad

Summer 2019, Summer 2018

Climate Policy

PUBP 3320
Alice Favero
Affiliated

This course aims to address the whole complexity of climate change, by bringing together the science of climate change, the analysis of impacts, and the economic and engineering strategies to reduce emissions.

Spring 2019, Summer 2018, Spring 2018

Synthesis Lab I

CHEM 2380
Hui Zhu
Affiliated

Synthesis Lab I introduces you examples of organic reactions that have impact in real-life industry and business.
Pre-Senior Design

ISYE 4800

Chen Zhou

Affiliated

Senior Design is a mentored experience in which students begin the transition from school to engineering practice.

MORE »

Introduction to Urban and Regional Planning

CP 4020

Bruce Stiftel

Affiliated

This course provides an overview of the planning of cities and metropolitan regions. The legal and historical context as well as substantive areas of urban planning

MORE »

Urban Sociology

HTS 3012

Allen Hyde

Affiliated

The purpose of this course is to introduce students to the field of urban sociology by exploring the history and current conditions of cities.

MORE »

Sustaining Ecologies

ENGL 1101

McKenna Rose

Affiliated

The Path Foundation, Trees Atlanta, Friends of the Beltline, ATL Urban Farms, Aware Wildlife Center: these are just some local organizations working to sustain ecologies in Atlanta.

MORE »
Poetics of Sustainability: Ecology & Immigration
ENGL 1102
Nick Sturm
Affiliated
This course will explore the intersections of ecology and immigration as urgent social, political, and environmental issues through the lens of poetry.

GT 1000 SU3
GT 1000
Jamie White
Affiliated
This GT 1000 course is focused on Equitable & Sustainable Development as part of the Sustainable Communities summer session track. Student will learn to evaluate how decisions impact the sustainability of communities.

Technical Communication: The Problem of Water
LMC 3403
Rebekah Greene
Affiliated
The technical communication classroom is not just a laboratory space for professional training; it is also a laboratory space for developing the necessary skills to become a responsible citizen (Blake Scott 294).

GT 1000 SU2
GT 1000 SU2
Yelena Rivera-Vale
Affiliated
This GT 1000 course is focused on Equitable & Sustainable Development as part of the Sustainable Communities summer session track. Student will learn to evaluate how decisions impact the sustainability of communities.
Introduction to Media Studies
LMC 2400
Yanni Loukissas
Affiliated
How have contemporary media, such as comics, film, literature, video games, data visualization, and architecture, been used to shape popular conceptions of the environment, to challenge those conceptions and to propose radical alternatives?

Management in the Healthcare Sector
MGT 3662
Bill Todd
Affiliated
This course will explore the healthcare sector in its most comprehensive sense. It will analyze the healthcare "system" across the continuum of patient care – from prevention, to early detection, to diagnosis and treatment, to palliative care.

Architecture, Sound, Sustainability
ENGL 1102
Lauren Neefe
Affiliated
This course in multimedia rhetoric is part of the summer iGniTe SLS program in sustainability. Working from the premise that social equity and communal equity are integral to sustainable futures, the course asserts the importance of sound to our experience of the spaces we live in.

GT 1000 SU1
GT 1000 SU1
Maria Ceballos
Affiliated
This GT 1000 course is focused on Equitable & Sustainable Development as part of the Sustainable Communities summer session track. Student will learn to evaluate how decisions impact the sustainability of communities.
Affiliated Courses

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Capstone Design

CEE 4090A

Kari Watkins, Michael Rodgers

Affiliated

Capstone Design is an interdisciplinary civil and environmental design experience. Students form teams of 3 – 5 people, and these teams function as “companies” that provide consulting services to a selected sponsor on a specific design project.

MORE »

Multimodal Transportation

CEE 4610

Kari Watkins, Michael Rodgers

Affiliated

MORE »
Planning, design and operation of systems of air, rail, water and highway facilities, including those for bicycles and pedestrians. In this course, we will focus on the need, purpose and design for multimodality. Why is a multimodal transportation system important?

**Energy and Environmental Analysis**

ISYE 4803

*Valerie Thomas*

Affiliated

ISyE 4803 Energy and Environmental Analysis addresses energy and environmental assessment from a systems perspective.

**Climate and Global Change**

EAS 4410

*Jean Lynch-Steiglitz*

Affiliated

The goal of this course is to provide a solid introduction to the concept of sustainable growth and development. Sustainability is a broad and somehow necessarily vague concept that can be interpreted in many different ways.

**Vertically Integrated Project: Bee Snap**

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4984-VV4

*Jennifer Leavey*

Vertically Integrated Project

This course is part of the Vertically Integrated Projects program, where students get credit for working on ongoing projects over multiple semesters. As part of the Bee-SNAP team, students will design devices and computational approaches to study bees in urban habitats.
Sustainability, Technology, and Policy

PUBP 3600
Emanuele Massetti
Foundation
The goal of this course is to provide a solid introduction to the concept of sustainable growth and development. Students will learn how to professionally navigate the current debate on sustainability and to assess strategies to promote sustainable communities and a sustainable planet.

MORE »

Introduction to User Interface Design

CS 3750, PSY 3750
Rosa Arriaga
Affiliated
In this course we work through the entire User Centered Design Cycle: requirements gathering, designing alternatives, prototyping and evaluation. We work on a project that matters to our community partners.

MORE »

Technology and Sustainable Community Development (Tech and Sustainable Communities)

SLS 3110
Ellen Zegura, Ruthie Yow
Foundation
When does technology improve communities? When doesn’t it, and why? How can you improve your chance of having a positive long-term impact on communities? How is designing technology for communities different from designing technology for consumers?

MORE »

Vertically Integrated Project: Configurable Computing and Embedded Systems

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VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VPZ

Lee Lerner, Linda Wills
Vertically Integrated Project

This course is part of the Vertically Integrated Projects program, a program where students get credit for working on ongoing projects over multiple semesters. This VIP course explores how embedded sensor and computing technology can be used to promote sustainability in a smart city framework.

MORE »

Introduction to Environmental Science

EAS 1600

Jennifer Glass

Affiliated

Understanding our planet’s environment requires understanding how the whole Earth functions as an interconnected system.

MORE »

Chemical Principles II Laboratory

CHEM 1212K

Michael Evans

Affiliated

The laboratory portion of this course focuses on foundational principles and essential techniques of chemistry. These conceptual and technical tools have great relevance to many issues of importance to society, including climate change, human health, economic security, and more.

MORE »

Thermodynamics

ME 3322

Marta Hatzell

Affiliated

Thermodynamics plays a critical role in the development of new systems which provide energy, reduce waste, and mitigate global climate change. This course will provide you with the fundamental skills necessary to develop strategies to solve a range of emerging engineering based problems.

MORE »
Vertically Integrated Project: Engineering for Social Innovation

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VV5

Joy Harris
Vertically Integrated Project

This course is part of the Vertically Integrated Projects program, where students get credit for working on ongoing projects over multiple semesters. The Engineering for Social Innovation VIP team teaches sustainability through hands-on projects that serve the global community.

Chemical Principles II

CHEM 1212K HP

Jake Soper
Affiliated

This Honors Program section of Chemical Principles II differs from traditional large lectures in two key areas: First, core chemical concepts are introduced by considering "big questions" in chemistry, typically pertaining to the challenge of powering the planet with clean energy.

Ecology Lab

BIOL 2336

Emily Weigel
Affiliated

Ecology Lab covers basic ecological phenomenon using urban ecological settings as the backdrop. As a class, we visit areas in the metro-Atlanta community to understand human-environment interactions within our ecosystem.

Organizational Behavior

MGT 3101

Tiffany Johnson
Organizational behavior (OB) is an interdisciplinary field that seeks to understand human behavior within organizations. It imports, integrates, and expands upon theory and research from areas such as psychology, sociology, economics, political science, anthropology, and communication.

Technology and Poverty

CS 4745, CS 6745
Neha Kumar

This course encourages students to think about how they might design technologies with a focus on global development, paying special attention to the needs of underserved, under-resourced, and under-represented communities across the world.

Sustainable Business Consulting Practicum

MGT 6369
Michael Oxman

Sustainability from a business perspective encompasses environmental and social performance that collectively drives significant corporate value.

Psychology Research Methods for HCI

PSYC 6023
Carrie Bruce

How do you know what a user wants to see on a wearable display, whether an app feature is being used, whether a clickable button is better than a swipe, or whether a person who is blind can use your physical product?

Honors Biological Principles

BIOL 1511

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Colin Harrison
Affiliated

The laboratory portions of the BIOL 1511 and 1521 courses are designed as research service-learning labs that integrate relevant community service with academic coursework to enhance learning, teach civic responsibility, and strengthen communities.

MORE »

Development Economics
ECON 8803
Shatakshee Dhongde
Affiliated

This is a graduate course on development economics. The course will cover a wide range of topics including how communities differ in terms of: economic growth, poverty, inequality, and human development.

MORE »

GT 2000

GT 2000
Yelena Rivera-Vale
Affiliated

Transfer students will start their Georgia Tech experience on the right foot with this GT 2000 seminar which covers topics critical to a transfer student’s success.

MORE »

Green Construction
ARCH 6226, ARCH 4833
Jason Brown
Affiliated

The course focuses on strategies and technologies to improve the energy efficiency and performance of buildings, and to reduce the environmental impact of buildings.

MORE »

Smart and Sustainable Cities
CEE 4803F
This course is open to all undergraduate Civil and Environmental engineering majors. It will be taught in three parts.

**MORE »**

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**Introduction to Historic Preservation**

ARCH 4107, ARCH 6107

Leslie Sharp

This course will help students develop an understanding of the history, philosophy, organization, current legislation, policies, and practices of historic preservation in the United States.

**MORE »**

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Vertically Integrated Project: Humanitech

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VVS

Robert Wallace, Leah Misemer, Joe Brown

Vertically Integrated Project

GT faculty are working on a range of ongoing and exploratory humanitarian research topics. The purpose of this course is to introduce students to this research and get them involved to help advance the work.

MORE »

Environmental Ethics

PHIL 4176 RK

Robert Kirkman

Affiliated

This is a practical course in environmental decision making in response to complex, open-ended
problem situations.

MORE »

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### Sustainable Marketing

**MGT 4803**

**Dionne Nickerson**

Affiliated

As environmental and social consciousness has grown in recent years, sustainability has emerged as an important market driver with the potential to grow profits and spur value creation. As a result, firms are increasingly making sustainability a strategic priority.

MORE »

### Leadership Minor Capstone - Social Impact Organizations

**MGT 4611**

**Dori Pap**

Affiliated

This is a capstone style course where most of the learning will be generated through a project with a social sector (social enterprise or nonprofit) organization, and by attending the weekly IMPACT Speaker series talks. The groundwork for understanding the opportunities and challenges of th

MORE »

### Impact Forum

**MGT 4192**

**Saba Colakoglu**

Affiliated

Each individual has a unique capacity to contribute his or her expertise, talents, and experiences to create a significant impact in his or her life and in the lives of others in their communities. Through readings, discussions, group projects, and a line-up of guest speakers who have had an

MORE »

### Health and Design Studio

**ID 3031**

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Jon Sanford
Affiliated
Farmer’s markets, especially in urban neighborhoods, provide opportunities not only for healthy lifestyles through improved nutrition and exercise, but also for sustaining communities. For seniors, who struggle with loss of community and increasingly isolation as their mobility declin

MORE »

The History and Rhetoric of Science Writing for Children
ENGL 1102
Rebekah Fitzsimmons
Affiliated
Books for children, both fiction and non-fiction, can address scientific principles in creative ways in an attempt to educate, inform and excite young children.

MORE »

Introduction to Global Development
INTA 2050
Alberto Fuentes
Affiliated
This course introduces students to the history, theory and practice of international development.

MORE »

Synthesis Lab I
CHEM 2380
Amanda Stephens
Affiliated
Synthesis Lab I introduces you examples of organic reactions that have impact in real-life industry and business.

MORE »

Senior Design
ISYE 4106
Chen Zhou
Affiliated

Senior Design is a mentored experience in which students begin the transition from school to engineering practice.

MORE »

Pre-Senior Design
ISYE 4800
Chen Zhou
Affiliated
Senior Design is a mentored experience in which students begin the transition from school to engineering practice.

MORE »

Scientific Foundations of Health
APPH 1040
Teresa Snow
Affiliated
This section of Scientific Foundations of Health will focus on community interactions to promote a more healthy, sustainable future. Projects will focus on bringing awareness and developing both short, and long-term solutions to health issues impacting the Georgia Tech and Greater Atlanta c

MORE »

Prototyping Practices for Innovation
ID 3803-CS
Craig Stehle
Affiliated
Prototypes are typically thought of as nearly complete products or technologies which are used to conduct system, alpha or beta testing near the end of a development process.

MORE »

Chemical Product Design
ChBE 4535
Elsa Reichmanis
Affiliated
This course provides a product design algorithm that can facilitate design and development of
new or improved products. The design process emphasizes the concepts of sustainability, and discusses the impact of products, specifically chemical products on the community.

MORE »

Chemical Principles I Laboratory

CHEM 1211K

Michael Evans

Affiliated

The laboratory portion of this course focuses on foundational principles and essential techniques of chemistry. These conceptual and technical tools have great relevance to many issues of importance to society, including climate change, human health, economic security, and more.

MORE »

Data Science for Public Policy

PUBP 4803 OA

Omar Isaac Asensio

Affiliated

Data Science for Public Policy introduces big data for social science and public policy applications. Students learn foundations of data science and learn to conduct field experiments with an aim to solve social, environmental problems in major policy areas.

MORE »

Urban Sociology

HTS 3012

Allen Hyde

Affiliated

The purpose of this course is to introduce students to the field of urban sociology by exploring the history and current conditions of cities.

MORE »

Social Theory and Structure

HTS 3012

Kate Pride Brown
Social Theory and Structure (HTS 3102) allows students to read the original writings of the great social thinkers who provided the foundational ideas that inspired the discipline of sociology.

Globalization in the Modern Era
HTS 3055
Kate Pride Brown
Affiliated
Globalization in the Modern Era (HTS 3055) will examine the social, political and economic bases for the phenomenon frequently referred to as "globalization." The course will discuss competing theories regarding the rise of globalization, as well as the divergent consequences that this

Food Literacy of Atlanta
ENGL 1102
Darcy Mullen
Affiliated
In the past decade Atlanta has undergone phenomenal changes in infrastructure, and food culture because of two things: being a beta-hub in the tech industry, and tax credits that have cultivated a thriving film industry.

Career Success II
INTD 3024 P
Nathan Heald
Affiliated
This course is focused on providing students opportunities to develop and reinforce tools and techniques to successfully become employed and maintain employment. Through this course, students will engage in internship opportunities on and off-campus that align with their career interests.

Big Data and Public Policy
PUBP 8813, ECON 8803
Spring 2019, Fall 2018, Spring 2018
Omar Isaac Asensio
Affiliated
The School of Public Policy is offering a new cross-listed course with the School of Economics in Big Data and Public Policy. This course will provide an introduction to data science tools and methodologies for social science applications.

MORE »

Environmentalism and Ecocriticism
LMC 3308
Thomas Hugh Crawford
Affiliated
Environmentalism and Ecocriticism—The Cultural History of Trees, A Hands-on Learning Project
Wood has been the most important material in the history of human technological practices, yet today it seems to have been reduced to crooked 2x4s sold at the local home center.

MORE »

Women in Science Fiction
ENGL 1102
Bethany Jacobs
Affiliated
Women in Science Fiction studies women writers, artists, and musicians who use science fiction to propose and debate how we might make our world more sustainable.

MORE »

Energy Policy and Markets
PUBP 6350
Alice Favero
Affiliated
The class will introduce students to energy technologies, with specific regards to markets and policy. The objective of the course is to provide the economist’s perspective on a broad range of topics that professionals in the energy industry will encounter.

MORE »

Resources

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Technical Communication: The Problem of Water
LMC 3403
Rebekah Greene
Affiliated
The technical communication classroom is not just a laboratory space for professional training; it is also a laboratory space for developing the necessary skills to become a responsible citizen (Blake Scott 294).

MORE »

Urban and Regional Economics
ECON 6330
Seung Hoon Lee
Affiliated
In Urban Economics, Atlanta is an interesting city. It is one of the most segregated cities ethnically and economically. It is one of the most sprawled cities in the US. The unique features affect your life. Atlanta shows very low inter-generational income mobility.
Introduction to Engineering Graphics

ME 1770 A
Raghu Pucha

Learn graphics and CAD tools through socio-technical project-based learning with Motivational Designs for Sustainability. Design based activities that incorporate social justice and sustainability are engaged by both individual and team projects.

Universal Design for Community Health: Health in the Built Environment

ID 4210, ID 6800, ARCH 4843, ARCH 4843
Sarah Melgen

Universal Design in the Built Environment is a project-based, 3-credit course that explores the implications of human ability on the usability of places, products, interfaces, and systems for all individuals. Course projects will engage students in solving real world problems through commun

Equitable Business Communication: Audience and Design

LMC 3403
Joseph Aldinger

"Equitable Communication" provides students with the opportunity to apply the design, communication, marketing, and rhetorical skills that they learn in class in order to make a difference in our Atlanta, Georgia, and global community.

Project Studio: Resilience, Equity, and Design

LMC 6650
Carl DiSalvo
This course will be taught as a project studio in collaboration with from the City of Atlanta and local community organizations.

MORE »

**Principles of Interaction Design**

LMC 3710

*Christopher Le Dantec*

Affiliated

In this course we will study and explore the principles and practices of interaction design.

MORE »

**Project Studio (Local Data Design Lab)**

LMC 6650

*Yanni Loukissas*

Affiliated

This course seeks to engage graduate students (and advanced undergraduates) from across Georgia Tech in exploring what Atlanta looks like through civic data. Today, data on the city are increasingly available.

MORE »

**Strategic Economics of Global Enterprise**

ECON 4311

*Usha Nair-Reichert*

Affiliated

Econ 4311 examine the activities and strategies of multinational corporations (MNCs), the role of global trade and investment regulations on the decisions of these firms, and their impact on communities and sustainability.

MORE »

**Bad Collections**

ENGL 1101

*Mckenna Rose*

Affiliated

Stockpiles of nuclear weapons, a surfeit of trash in landfills, record high accrual of greenhouse
gasses in the atmosphere, eighty-five percent of global wealth concentrated in just ten percent of its occupants: these are just some bad collections that threaten the continued existence of human li

MORE »

Social Entrepreneurship

MGT 4194
Robert Thomas

Affiliated
Social enterprises are dedicated to creating social value by attracting private and public funds to address the challenges of society. They may take the form of a nonprofit, for-profit or hybrid organization.

MORE »

Management in the Healthcare Sector

MGT 3662
Bill Todd

Affiliated
This course will explore the healthcare sector in its most comprehensive sense. It will analyze the healthcare “system” across the continuum of patient care – from prevention, to early detection, to diagnosis and treatment, to palliative care.

MORE »

Sustainable Cities Studio

CP 4052
Evan Mallen

Affiliated
In this course, we partner with Central Atlanta Progress, who recently completed the Downtown Atlanta Master Plan (https://www.atlantadowntown.com/initiatives/master-plan), focusing specifically on the goals outlined in chapter 5 regarding restoration of the urban forest downtown and enhancing gr

MORE »
Introduction to Research  
COS 2000

Jennifer Leavey  
Affiliated
SHaRP Living Learning Community students only – Students in this course will engage with faculty and professional researchers at Georgia Tech in order to explore the ethical effects of medical research.

GT 1000 SL5  
GT 1000 SL5

Michael Chang, Howard Wertheimer  
Affiliated
Georgia Tech is deeply committed to sustainability and the environment, and has created an amazing campus that is an urban-living-learning laboratory for hands on education and research.

Freshman Seminar - Climate Change Focus  
GT 1000 C03

Michael Evans  
Affiliated
The Freshman Seminar course is designed to help students prepare for success in college and reflect on their values, academic plan, and career.

Energy, Efficiency, and Sustainability  
ISYE 4501

Valerie Thomas  
Affiliated
This course addresses energy and environmental assessment from a systems perspective.

Science, Technology, and Human Values  
PHIL 3140-IR
This course is divided into two parts: 1.

---

Climate Resilience
BIOL 8802/EAS 8802
Jenny McGuire
Affiliated
The rapid change in climates across the globe requires us to determine which human and ecological systems will be most affected and how to alleviate climate vulnerability, which is captured by the concept climate resilience.

---

User Interface Design
CS 3750
Lauren Wilcox
Affiliated
This project-based course covers the process of designing high-quality user interfaces to computing systems. It walks teams step-by-step through the user-centered design process, resulting in novel UI designs that meet users’ needs and even delight them.

---

GT 1000 Section B01
GT 1000 Section B01
Diana Tiernan
Affiliated
The theme of this GT 1000 section is campus sustainability. Throughout the duration of the course connections to sustainability will be highlighted. Opportunities for students to engage with sustainability initiatives and to lessen their environmental impact will be shared.

---

Composing Access
ENGL 1101
Corey Goergen
Who has access to the university? In this course, you will consider how institutes of higher education have built barriers to access for disabled people and how disabled people have fought to remove them.

MORE »

**Cultures of Waste: Disease and Environment**

**ENGL 1102**

**Hannah Markley**

Affiliated

This course explores literary and cultural representations of bodily and industrial waste alongside wasting diseases to explore how the nineteenth century produced ideas about waste that continue to influence contemporary work in the fields of epidemiology, civil engineering, public health, envir

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**Extensive and Intensive Reading in Japanese**

**JAPN 3813**

**Aya McDaniel**

Affiliated

This course utilizes authentic reading materials like Japanese newspaper articles related sustainability issues* and novels, essays, manga and folk tales.

MORE »

**Graphic Medicine: Comics and Mental Illness**

**ENGL 1102**

**Leah Misemer**

Affiliated

Students will have the opportunity to share research about mental health issues by creating digital comics that reduce the stigma surrounding mental illness and that educate the Georgia Tech community about mental health resources on campus.

MORE »
## Affiliated Courses

**Request Course Affiliation**

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### Technical Communication for Business Majors

**LMC 3403**

**Andrea Rogers**

**Affiliated**

After completing the first course module on personal branding, students will turn their attention to climate-related issues.

**MORE »**

### Composing Empire and Revolution

**ENGL 1101**

**Molly Slavin**

**Affiliated**

In the exuberant Lin-Manuel Miranda Hamilton musical, the American Revolution is re-imagined as a modern hip-hop rebellion against the stodgy, Beatles-esque musical stylings of the British Empire.
GT 1000 SL4
GT 1000 SL4
Maria Ceballos, Kristina Chatfield
Affiliated
This seminar course is designed to help you make a successful transition to college by becoming better acquainted with the academic and social environments here at Georgia Tech.

GT 1000 - Creating Socially Sustainable Communities
GT 1000 SL1
Samantha Lie-Tjauw
Affiliated
This section of GT-1000 will explore the value in the social aspects of sustainability (e.g., civic engagement, community building, etc) and how to incorporate these aspects into the academic, professional, and everyday experience.
# Affiliated Courses

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## Honors Organismal Biology

BIOL 1521  
**Mike Goodisman**  
Affiliated

The laboratory portions of these courses are designed as research service-learning labs that integrate relevant community service with academic coursework to enhance learning, teach civic responsibility, and strengthen communities.

MORE »

## Honors Ecology

BIOL 2337, BIOL 2338  
**Marc Weissburg**  
Affiliated  

Honors ecology is a team based, problem based course in general ecology. There are no lectures: students are expected to identify the relevant knowledge, learn and apply it to the given problem and are mentored by faculty through this process.
Capstone Design

CEE 4090A
Kari Watkins, Michael Rodgers
Affiliated
Capstone Design is an interdisciplinary civil and environmental design experience. Students form teams of 3 – 5 people, and these teams function as “companies” that provide consulting services to a selected sponsor on a specific design project.

Environmental Technology in the Developing World
CEE 4350
Joe Brown
Affiliated
CEE 4350 seeks to develop practical skills to evaluate environmental technologies in developing countries with a focus on sustainable and healthy communities.

Environmental Policy and Politics
PUBP 3315
Alice Favero
Affiliated
The course will focus on what constitutes effective environmental policy. First, we will analyze the evolution of environmental policy and actors in the environmental arena.

Vertically Integrated Project: Bee Snap
VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4984-VV4

Jennifer Leavey
Vertically Integrated Project
This course is part of the Vertically Integrated Projects program, where students get credit for working on ongoing projects over multiple semesters. As part of the Bee-SNAP team, students will design devices and computational approaches to study bees in urban habitats.

MORE »

Vertically Integrated Project: Configurable Computing and Embedded Systems

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VPZ
Lee Lerner, Linda Wills
Vertically Integrated Project
This course is part of the Vertically Integrated Projects program, a program where students get credit for working on ongoing projects over multiple semesters. This VIP course explores how embedded sensor and computing technology can be used to promote sustainability in a smart city framework.

MORE »

Habitable Planet

EAS 1601
Brittany Schmidt
Affiliated
The search for life beyond the Earth is reaching new heights. So what are we looking for, and how will we know when we find it?

MORE »

Understanding Markets with Data Science

MGT 8803, MGT 4803
Chris Gu
Affiliated
This course treats community as its central theme, and focuses on the use of data science to

https://sls.gatech.edu/affiliated-courses?field_semester_tid=248&field_college_tid=All&field_related_big_ideas_tid=All&field_course_type_tid=All&fiel...
understand how individuals interact with each other, and how organizations and firms may gain insights and design policies that better serve individuals across various communities.

MORE »

# Sustainable Transportation Abroad

CEE 4660

Kari Watkins

Study Abroad
Chemical Principles II Laboratory

CHEM 1212K

Michael Evans

Affiliated

The laboratory portion of this course focuses on foundational principles and essential techniques of chemistry. These conceptual and technical tools have great relevance to many issues of importance to society, including climate change, human health, economic security, and more.

More »

Fundamentals and Challenges for a Sustainable Chemical Enterprise

CHEM 4833/8833, ChBE 4803/8803

Elsa Reichmanis

Affiliated

In the chemical enterprise (industry, government and academia), chemists and engineers are involved in and are responsible for the development of new products, materials and manufacturing processes.

More »

Thermodynamics

ME 3322

Marta Hatzell

Affiliated

Thermodynamics plays a critical role in the development of new systems which provide energy, reduce waste, and mitigate global climate change. This course will provide you with the fundamental skills necessary to develop strategies to solve a range of emerging engineering based problems.

More »
Vertically Integrated Project: Engineering for Social Innovation

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VV5

Joy Harris
Vertically Integrated Project

This course is part of the Vertically Integrated Projects program, where students get credit for working on ongoing projects over multiple semesters. The Engineering for Social Innovation VIP team teaches sustainability through hands-on projects that serve the global community.

Foundations of Sustainable Systems

SLS 3120

Beril Toktay, Kim Cobb, Jennifer Hirsch
Foundation

How can we accelerate progress towards a more sustainable world? How do we create sustainable systems for the 21st century?

English Service Learning for Sustainable Futures

ESL-SP01L-SP1

Melissa Aberle-Grasse
Affiliated

This English language course will explore and create solutions toward a Sustainable Future for cities here and around the world. Our local focus will be Atlanta, where we hear speakers, read about, and visit examples of sustainable solutions in food and energy.

GT 2000
GT 2000
Yelena Rivera-Vale

Affiliated
Transfer students will start their Georgia Tech experience on the right foot with this GT 2000 seminar which covers topics critical to a transfer student’s success.

MORE »

Sociology of Medicine and Health

HTS 3086
Jennifer Singh

Affiliated
This course will introduce the sociology of medicine and health (also known as medical sociology or sociology of health and illness), which is a broad field examining the social production of health, wellness, illness and mortality.

MORE »

Vertically Integrated Project: Humanitech

VIP 2601, VIP 3601, VIP 3602, VIP 4601, VIP 4602, VIP 4603, VIP 4983-VVS
Robert Wallace, Leah Misemer, Joe Brown

Vertically Integrated Project
GT faculty are working on a range of ongoing and exploratory humanitarian research topics. The purpose of this course is to introduce students to this research and get them involved to help advance the work.

MORE »

Numerical Methods in Chemical Engineering

CHBE 2120
Andrew Medford

Affiliated
Many engineering problems require the use of advanced numerical methods for finding solutions to systems of linear, nonlinear, and differential equations, optimizing functions, and analyzing data.
African American Rhetorics of Resistance

ENGL 1102
Bethany Jacobs
Affiliated

As an SLS-affiliated course, African American Rhetorics of Resistance will focus specifically on the role of community in African American arts and letters. Black music, art, and literature is known for exploring racism, but it is equally invested in the power of joy and coalition.

Serve-Learn-Sustain in Spain

SPAN 3151, SPAN 4156, SPAN 4157, SPAN 4158, SPAN 4693
Kelly Comfort
Study Abroad
**Impact Forum**

MGT 4192  
**Saba Colakoglu**  
Affiliated

Each individual has a unique capacity to contribute his or her expertise, talents, and experiences to create a significant impact in his or her life and in the lives of others in their communities. Through readings, discussions, group projects, and a line-up of guest speakers who have had an

**Business Decisions for Sustainability and Shared Value**

MGT 4803  
**Ravi Subramanian**  
Foundation

At the heart of the concept of “business sustainability and shared value” are interconnections among the economic, environmental, and societal dimensions of business performance.
Climate Policy

PUBP 3320
Alice Favero
Affiliated

This course aims to address the whole complexity of climate change, by bringing together the science of climate change, the analysis of impacts, and the economic and engineering strategies to reduce emissions.
## Affiliated Courses

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### Introduction to Global Development

**INTA 2050**

*Alberto Fuentes*

Affiliated

This course introduces students to the history, theory and practice of international development.

READ MORE »

### Scientific Foundations of Health

**APPH 1040**

*Teresa Snow*

Affiliated

This section of Scientific Foundations of Health will focus on community interactions to promote a more healthy, sustainable future. Projects will focus on bringing awareness and developing both short, and long-term solutions to health issues impacting the Georgia Tech and Greater Atlanta community.

READ MORE »
Career Success I
EXCEL 3026 P
Nathan Heald
Affiliated
This course is focused on providing students opportunities to develop and reinforce tools and techniques to successfully become employed and maintain employment. Through this course, students will engage in internship opportunities on and off-campus that align with their career interests.

MORE »

Prototyping Practices for Innovation
ID 3803-CS
Craig Stehle
Affiliated
Prototypes are typically thought of as nearly complete products or technologies which are used to conduct system, alpha or beta testing near the end of a development process.

MORE »

Construction Management and Megaprojects
CEE 4150
Baabak Ashuri
Affiliated
“Restore and improve urban infrastructure” is one of the 14 grand challenges for engineering in the 21st century, according to the National Academy of Engineering (NAE).

MORE »

Sustainable Cities Studio
CP 4052
Bill Drummond
Affiliated
The studio is a practicum for students in their final year of the sustainable cities minor, bringing students from various majors to begin to apply their specialized knowledge in ways that interact to provide planning, design, and development approaches to the critical problem of linking transpor
Chemical Principles I Laboratory

CHEM 1211K
Michael Evans
Affiliated

The laboratory portion of this course focuses on foundational principles and essential techniques of chemistry. These conceptual and technical tools have great relevance to many issues of importance to society, including climate change, human health, economic security, and more.

History of Urban Form

ARCH 4151, ARCH 6151
Richard Dagenhart
Affiliated

Understanding cities, the largest and most complex artifacts in human history, is essential as we face the challenges of building a sustainable future.

Residential Design and Construction

BC 6675
Frank Wickstead
Affiliated

The course will move students through the process of designing and building a home working with a local non-profit developer.

Green Infrastructure and Sustainable Communities

ARCH 4803, ARCH 8803
Richard Dagenhart
Affiliated

Workshop focused course on stormwater management, green infrastructure, and sustainable development.
Food Literacy of Atlanta

ENGL 1102

Darcy Mullen

Affiliated

In the past decade Atlanta has undergone phenomenal changes in infrastructure, and food culture because of two things: being a beta-hub in the tech industry, and tax credits that have cultivated a thriving film industry.

Big Data and Public Policy

PUBP 8813, ECON 8803

Omar Isaac Asensio

Affiliated

The School of Public Policy is offering a new cross-listed course with the School of Economics in Big Data and Public Policy. This course will provide an introduction to data science tools and methodologies for social science applications.

The Connell Workshop: The Art of Drawing

ARCH 4833, ARCH 8833

Lane Duncan

Affiliated

The workshop explores a wide range of issues in hand drawing - tone, line, contour, gesture, composition, and the humanistic forces that shape them. The great Renaissance masters, Raphael, Michelangelo, da Vinci and others are used as a research standard for this investigation.

Field Work Abroad (Local Sustainability Practices)

FREN 3500

Christophe Ippolito

Affiliated

NOTE: This course is taught at Georgia Tech Lorraine (GTL) in Metz, France.
France Today I (Sustainable Communities in France)
FREN 3011
Christophe Ippolito
Affiliated
NOTE: This course is taught at Georgia Tech Lorraine (GTL) in Metz, France.

Science, Race, and Technology
LMC 3306
Joycelyn Wilson
Affiliated
LMC 3306 Science, Race, and Technology is known across the GT campus as the "Outkast Class".

Technical Communication: The Problem of Water
LMC 3403
Rebekah Greene
Affiliated
The technical communication classroom is not just a laboratory space for professional training; it is also a laboratory space for developing the necessary skills to become a responsible citizen (Blake Scott 294).

Introduction to Engineering Graphics
ME 1770 A
Raghu Pucha
Affiliated
Learn graphics and CAD tools through socio-technical project-based learning with Motivational Designs for Sustainability. Design based activities that incorporate social justice and sustainability are engaged by both individual and team projects.
Equitable Business Communication: Audience and Design
LMC 3403
Joseph Aldinger
Affiliated
"Equitable Communication" provides students with the opportunity to apply the design, communication, marketing, and rhetorical skills that they learn in class in order to make a difference in our Atlanta, Georgia, and global community.

MORE »

Project Studio (Local Data Design Lab)
LMC 6650
Yanni Loukissas
Affiliated
This course seeks to engage graduate students (and advanced undergraduates) from across Georgia Tech in exploring what Atlanta looks like through civic data. Today, data on the city are increasingly available.

MORE »

Social Entrepreneurship
MGT 4194
Robert Thomas
Affiliated
Social enterprises are dedicated to creating social value by attracting private and public funds to address the challenges of society. They may take the form of a nonprofit, for-profit or hybrid organization.

MORE »

Management in the Healthcare Sector
MGT 3662
Bill Todd
This course will explore the healthcare sector in its most comprehensive sense. It will analyze the healthcare "system" across the continuum of patient care – from prevention, to early detection, to diagnosis and treatment, to palliative care.

MORE »

The Outbreak Narrative

ENGL 1102

Maria Almanza

In "The Outbreak Narrative" will explore communication via our class topic: narratives of contagion.

MORE »

Standing Peachtree and Indigenous New Media

ENGL 1102

Chelsea Murdock

Indigenous knowledges and stories are mapped onto the land beneath your feet and mediated through oral and material modes. Indigenous knowledges and stories continue to be sovereign, embodied through various methods of meaning-making.

MORE »

Technical Communication for Business Majors

LMC 3403

Andrea Rogers

After completing the first course module on personal branding, students will turn their attention to climate-related issues.

MORE »
Affiliated Courses

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Social Impact: In-depth Exploration and Design
MGT 4803
Dori Pap
Affiliated

This course is for those curious (maybe even passionate) about social and/or environmental issues, who want to understand the root cause of those issues, and the challenges of providing evidence-based solutions.

MORE »

Sustainable Urban Development
CP 2233
Jairo Garcia
Affiliated

This course introduces the challenges of sustainability as applied to the built environment and the built environment's interconnectivity with the natural environment. It addresses a range of
specific sustainability-related issues such as sprawl and smart growth, climate chang

Solar Decathlon Design Challenge
ARCH 8903-JB
Jason Brown
Affiliated
This independent study is dedicated to completing Georgia Tech's entry to the US Department of Energy's Solar Decathlon Design Challenge for 2019. A team of students will ultimately produce a design for a net-zero ready building according to the DoE's requirements and, s

Project Studio: Technology
MUSI 3770
Grace Leslie
Affiliated
The Undergraduate Project Studio course offered by the School of Music in Spring 2019 presents the fundamentals of digital signal processing (DSP) as it relates to both physiological signals and musical sound.

Sustainable Food Systems
CP 4813-ME, CP 8823-ME
Michael Elliott
Affiliated
Food nourishes not only our bodies, but our spirits, families, and communities. At its best, food is healthful, economically sustainable, culturally appropriate and environmentally beneficial.

Biorefining
CHBE 4803-CS, CHBE 8803-CS
Carsten Sievers
Affiliated
Biomass is the only renewable source of organic carbon. Many efforts have been made in recent year to develop economically viable processes for converting biomass into novel products like fuels, chemicals, and materials.
CS 3311, LMC 3432
Kathleen Schaag
Affiliated
This course is part 1 of a two-semester Junior Design capstone course sequence that includes a computer science and technical communication component. This semester teams will develop a software solution to a problem defined by a real-world client.

Social Movements
HTS 3068
Rebecca A Watts Hull
In this course, we analyze how "ordinary people" challenge powerful segments of society through social movements, and thereby contribute to social change. This course addresses several basic questions: Why do social movements emerge when they do?

Health and Wellness Studio
ID 6212
Jon Sanford
Affiliated
Universal design is a key component for ensuring equal access to farmer’s markets. From the location of the market, to the neighborhood infrastructure to support mobility, to the layout of the market, to the design of farmer’s stands and community-related activities, design impa
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<td>Justin Biddle, Associate Professor</td>
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<td>Christian Braneon, Assistant Director</td>
<td>Center for Serve-Learn-Sustain</td>
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<td>Joe Brown, Assistant Professor</td>
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<td>K. Daniel Cooksey, Research Engineer</td>
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<td>Bistra Dilkina, Assistant Professor</td>
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<td>Carl DiSalvo, Associate Professor</td>
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<td>Jessica Fisch, Graduate Student</td>
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<td>Sabrina Grossman, Program Director</td>
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<td>Michael Oxman, Managing Director</td>
<td>Ray C. Anderson Center for Sustainable Business</td>
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<td>Russell Clark, Senior Research Scientist</td>
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<td>Ameet Doshi, Director, Service Experience</td>
<td>Georgia Tech Library</td>
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<td>Scott Duncan, Research Engineer</td>
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<td>Emma French, Graduate Students</td>
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<td>Neha Kumar, Assistant Professor</td>
<td>College of Computing/Ivan Allen College</td>
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<td>Ben Mason, Energy Conservation Manager</td>
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<td>Todd Michney, Visiting Assistant Professor</td>
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<td>Juan Rodriguez, Associate Professor</td>
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<td>Malte Weiland, Sr Sustainability Project Mgr</td>
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2019 SLS SDG Faculty Fellows:

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<td>Ravi</td>
<td>Subramanian</td>
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BBISS Professors and Fellows

The Brook Byers Professors

Made possible by a gift from Shawn and Brook Byers, a 1968 Georgia Tech alumnus in Electrical Engineering, the Brook Byers Professorships provide resources to enable and enhance cross-disciplinary, collaborative research and education in sustainability, energy, and water. Recommended by their peers, the three recipients were chosen by the Provost and approved by the Board of Regents. The appointments recognize superior scholarly achievement and the potential for further progress. The Brook Byers Professorship is the highest title bestowed at Georgia Tech for those specifically engaged in sustainability related research and education.

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Marc Weissburg  
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The purpose of the Fellows program is to serve as a board of advisors to the BBISS; to foster the culture and community of sustainability researchers, educators, and students at Georgia Tech; and to communicate broadly the vision, mission, values, and objectives of the BBISS. Fellows will work with the BBISS for three years, with the potential for a renewed term.

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Principal Research Scientist, GTRI

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