Georgia Tech Serve Learn Sustain

TRANSFORMATIONAL NOT TRANSACTIONAL

SUSTAINABILITY & CIVIC ENGAGEMENT @ GEORGIA TECH

NCSCE Science & Engineering for Social Good Conference

By Jennifer Hirsch, PhD, SLS Director

February 10, 2018

CREATING THE NEXT®

Georgia Tech Serve-Learn-Sustain

Mission

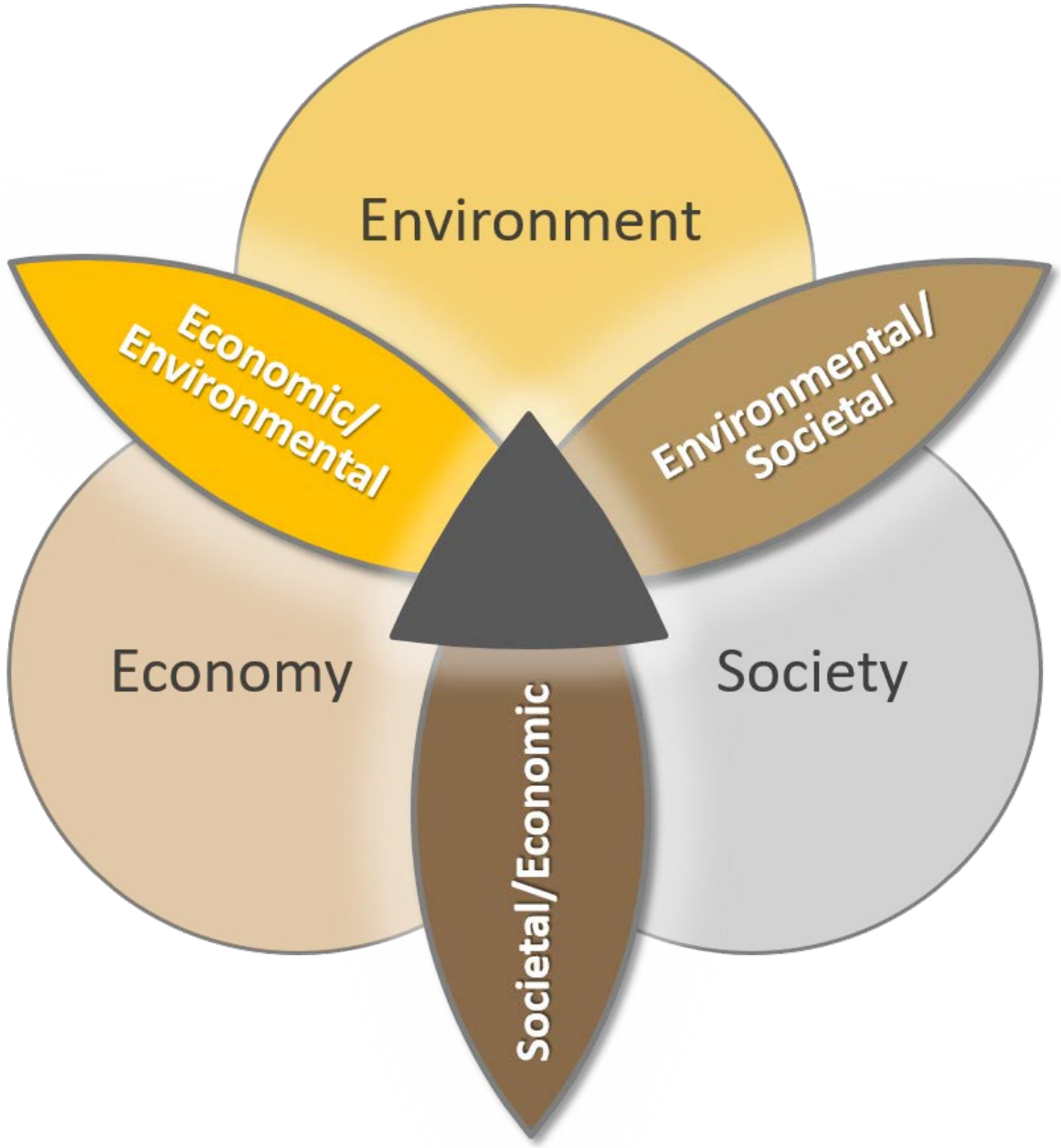
SLS educates students - through classroom, co-curricular, and real-world learning, on campus and off - **to contribute to the task of "creating sustainable communities"**

Vision

Georgia Tech graduates are using their disciplinary expertise related to science and technology **to help "create sustainable communities"** where humans and nature flourish, now and in the future, in Georgia, the U.S., and around the globe

SUSTAINABLE COMMUNITIES FRAMEWORK

- *Holistic* – connecting environmental, economic, and social systems
- *Social Sustainability* – equity, justice, voice
- *Technology* – to empower communities to create their own sustainable futures

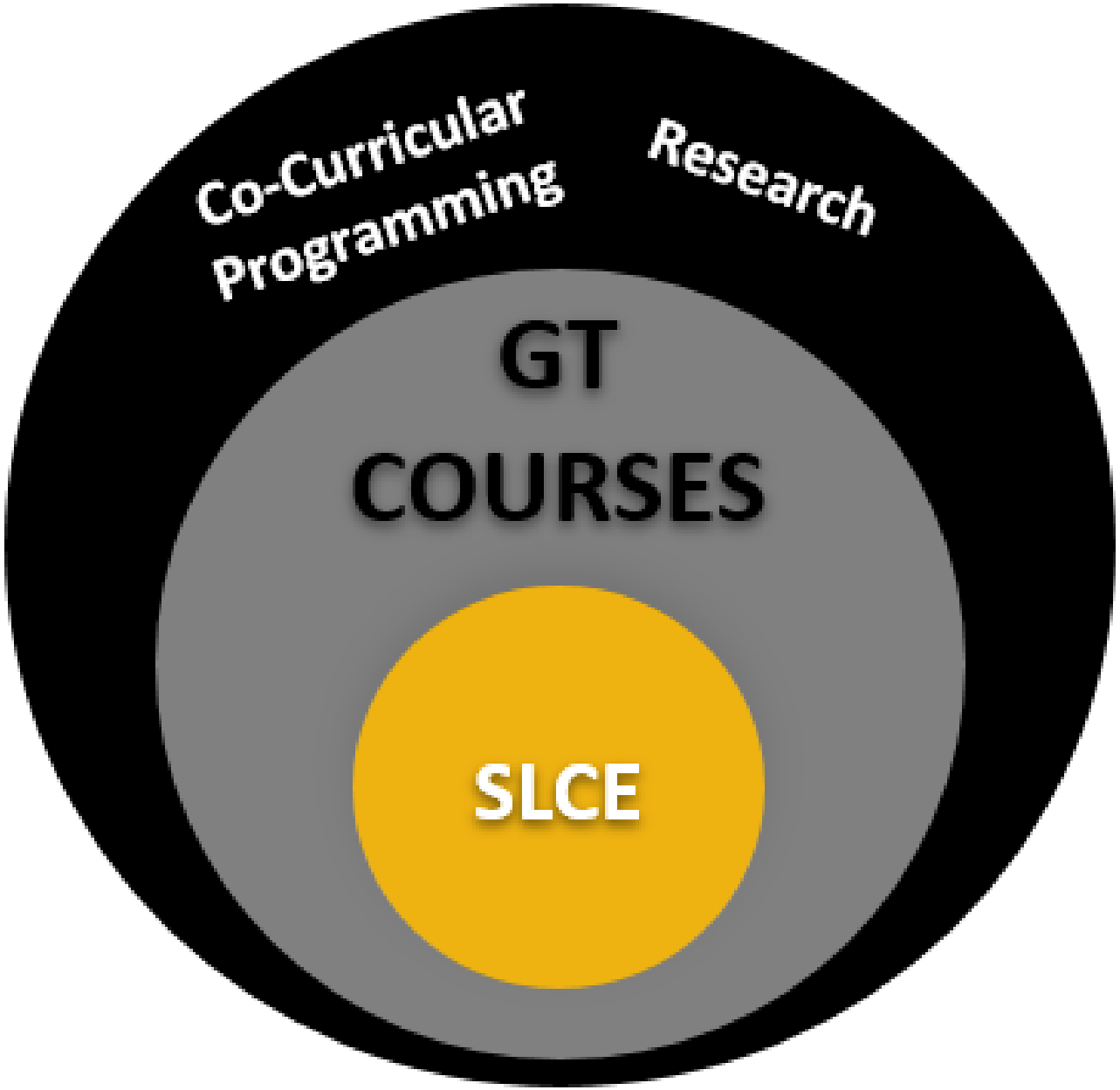


SLCE PROJECTS

Long-term Partners: co-educators, co-researchers, co-actors
Student Learning Outcome: TRANSDISCIPLINARY ANALYSIS & ACTION skills

1. Advance broader social change efforts addressing systemic causes
2. Incorporate technological expertise as one of many types of expertise
3. Highlight community expertise and assets
4. Prioritize equity
5. Forward community visions and solutions
6. Enhance human capital and self-sufficiency

CENTER *for* SUSTAINABLE COMMUNITIES



METHODS

- Course-based SLCE
- Supported by co-curricular programs, course linking, and faculty research and course development programs

Georgia Tech Serve-Learn-Sustain

SLS Jeopardy

SLCE COURSES & PARTNERSHIPS	FACULTY SUPPORT & DEVELOPMENT	CO-CURRICULAR PROGRAMS	QUOTES – & A CARTOON
$100 Linked Courses w/Buzz Course	$100 Teaching Toolkit	$100 Env Justice Series	$100 What Faculty Are Excited About
$200 ME Capstone w/SME Adviser	$200 Fellows Programs	$200 United Nations University RCE	$200 Biggest Challenge for Faculty
$300 Affiliated Courses Program	$300 Communities of Practice	$300 Key Issue Forums	$300 In A Student's Words

RCE Greater Atlanta

serve-learn-sustain.gatech.edu/atlanta-un-rce

"In S-L-S events, we are having interdisciplinary conversations that are unlike any other I've had in the nine years I've been at Tech. We actually have people in a room together from every college, have substantive discussions about the social value and impact of our work. This hasn't happened before. "

- Carl DiSalvo, LMC Faculty Member

Georgia Tech

Universal Design for Sustainable Communities

CERTIFICATE OF COMPLETION

Teaching Toolkit

Serve Learn Sustain
TEACHING TOOLKIT

The Teaching Toolkit is a library of lesson-planning resources that help instructors integrate sustainability, community engagement, and service-learning into their courses.

Browse by topic, keyword, or disciplinary interests, for example, or simply feel free to explore the options below. We also invite you to contribute by adding your own tools that you've successfully tried in your classrooms.

Tool Category
- Any -

Tool Type
- Any -

Time Commitment
- Any -

Big Ideas
- Any -

Tool Categories

Intro to SLS & Creating Sustainable Communities

Equity, Justice & Sustainability

GT1000

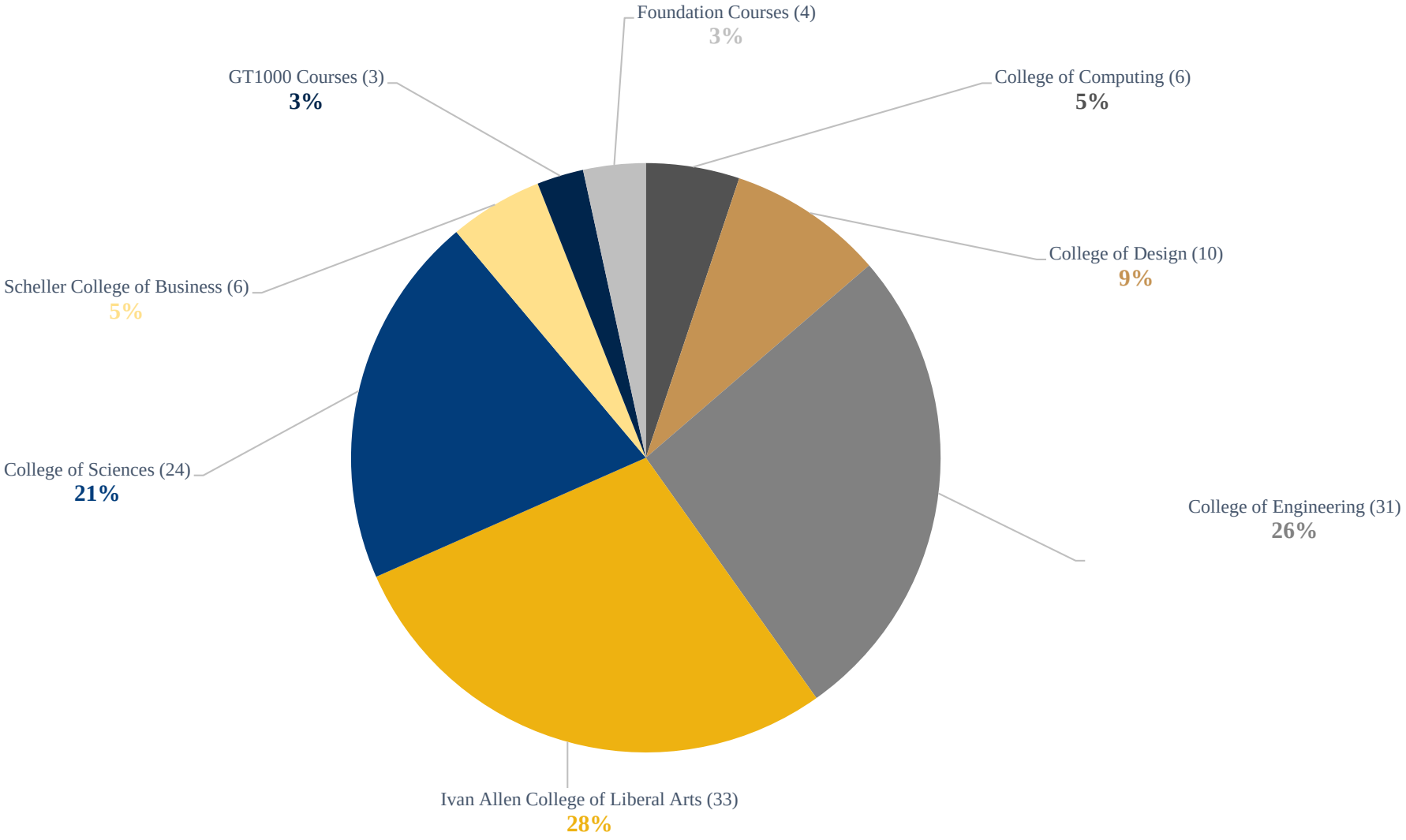
Service Learning and Community Engagement (SLCE)

Case Studies on Sustainable Communities

Using Data

Assessment

"Where do you see yourself not getting tenure in seven years?"



AY16-17: 117 courses, 5062 students

AF2 AgTech "Skunkworks"

Following our experience with hosting six GA Tech Mechanical Engineering senior students for the Fall 2017 semester as part of the GT Capstone Design program, our firm will establish a permanent research and development division to design and launch innovations in technological solutions for urban agriculture.

(Source: AF2 Opportunity Harvest Souvenir Booklet, Dec. 2017)

ENVIRONMENTAL JUSTICE SERIES 2016-17

FALL SEMESTER SCHEDULE

ATTEND **3 SLS EVENTS** THIS SEMESTER
AND RECEIVE **2 FREE TICKETS** TO THE
CENTER FOR CIVIL AND HUMAN RIGHTS

EJ Series Kick-off & Liam's Legacy Symposium

Tue., Sept. 27th, 4:30-6pm,
Student Success Center, Clary Theater

Data-driven Research for Environmental Justice: How Universities Can Help Move Vulnerable Communities from Surviving to Thriving

Featuring: Dr. Paul Mohai, University of Michigan, Mustafa Ali, Sr. Advisor to EPA Administrator Gina McCarthy, Samantha Shattuck, NEJAC Youth Perspectives on Climate Justice Workgroup

Key Issue Forums – Thought Leadership

- Community Health
- Water & Green Infrastructure
- Climate Change & Energy
- Social Innovation
- Civic Data & Design
- Sustainable & Equitable Development

FARMING

STUDENT PROFILE

Delaney Rickles, CEE, 2020

"I am so fortunate to have gotten involved with SLS early in my college career! The program has made me an all-around more aware and thoughtful person in addition to influencing my decision to pursue a career in designing equitable and sustainable communities."

- **Fall 2016:** Learns about SLS during Freshmen Orientation and participates in SLS Foundation Course, "Technology and Sustainable Communities" as a result
- **Spring 2017: Spring 2017:** Switches major to CEE to focus more on sustainable cities; elected to executive board of Enterprise to Empower as Marketing Chair
- **Summer 2017:** Begins working with SLS as a student assistant, attends "Measuring the Dream" symposium
- **AY18 and beyond:** Continues to work with SLS and pursues minor in Sustainable Cities; assumes leadership in RCE Youth Network
- **Career Interest:** Using a background in civil engineering to design more equitable and productive public space in Atlanta

Measuring the Dream Symposium

INSS: "Smart Cities" Conference

LEARN MORE ABOUT

SERVE-LEARN-SUSTAIN

http://serve-learn-sustain.gatech.edu/

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Small Group Discussions

- Discussion Questions:
  1. What stood out to you most?
  2. What similar models do you have at your schools?
  3. What ideas do these models inspire?
  4. What would you be interested in trying out?

- Last 5 minutes: jot down individual 3-2-1 answers for share-out:
  3- Key ideas you're taking away from this session
  2- Models/stories standing out in your mind as we wrap up
  1- Person you'd like to follow up with to learn more