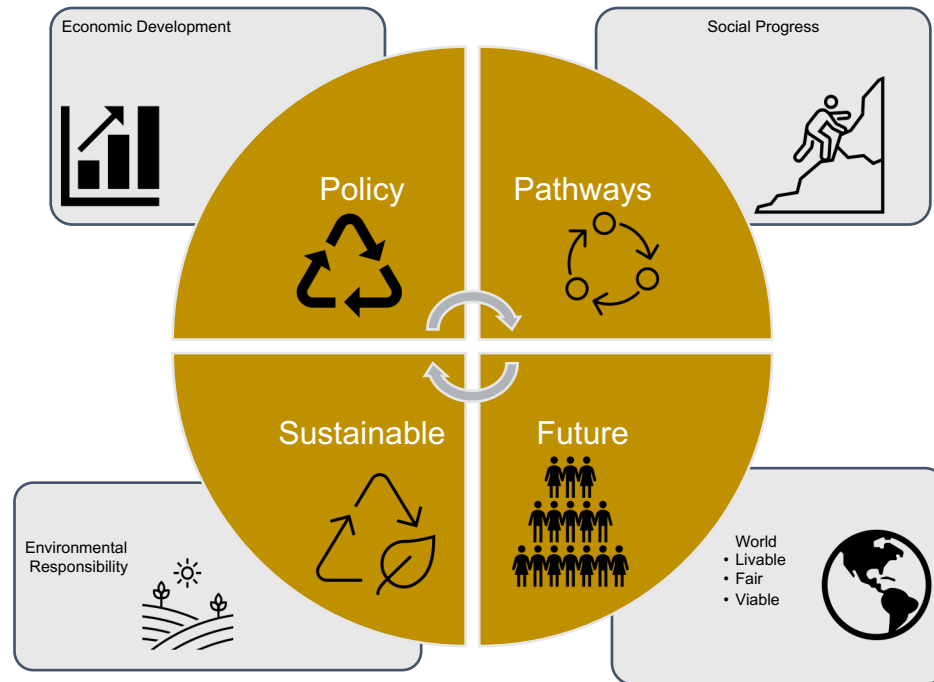


School of Public Policy

Sustainable Energy & Environmental Management

Masters (MSEEM) & Certificate (CSEEM) Programs



**Georgia
Tech**
CREATING THE NEXT

Dr. Marilyn A. Brown
Regents' Professor
mbrown9@gatech.edu

Dr. Daniel Matisoff
Associate Professor
Matisoff@gatech.edu

Dr. Alice Favero
Program Coordinator
alice.favero@gatech.edu

For more information: <https://cepl.gatech.edu/>

MSEEM & CSEEM Programs

School of Public Policy

Highly ranked by
U.S. News & World Report

Information Technology Management
Energy & Environmental Policy
Policy Analysis

Includes virtually every policy area

environmental, communications, transportation, biotechnology and health, urban development, workforce, education, and more.

- Multidisciplinary and globally networked
- Policy relevant in S&T, E&E, ITC and Ethics
- Programs informed by world-recognized thought leaders in policy, governance, STEM education, and real-world issues
- Data-driven forecasting innovation and entrepreneurial pathways

Benefits

- Choose from state-of-the-art programs across the university gives you competitive training for today's global marketplace
- Opportunity to plan a unique learning profile to optimize your career goals
- Access course content to suit your distinct needs

“Learn to use public policy skills to impact social good – change the world”

MSEEM Professors & Faculty

Award Winning

- Respected Practitioners
- International Awards
- Published
- Global Knowledge

“Experts in climate change – dedicated to reducing carbon emissions, leading research, influencing policy.”

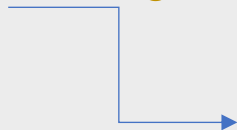
Benefits

- Learn
- Share Research
- Explore
- Collaborative
- Mentoring



MSEEM Faculty – World Renowned

Data Analytics &
Machine Learning



Omar Isaac Asensio



Data Science
Policy
Management

Marilyn A. Brown



MSEEM Co-Director
Energy Policy Modeling, Smart Grid
Policies, Renewables & E/Es

Utilities, Regulation,
Renewables, & Demand-
Side Solutions



Alice Favero



MSEEM Program Coordinator
Environmental Economics, Climate
Policy, Nat. Resource Economics

Scott Ganz



Social Organization
Spatial Economic Analysis
Impacts of Carbon Tax

Carbon Credits, Green Energy
Financing, Eco-Certification



Environmental
Economics &
Climate Policy



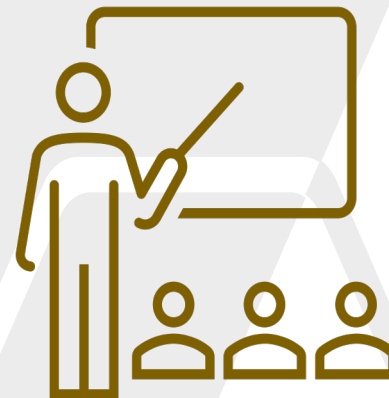
Climate Change &
Economics



Emanuele Massetti



Climate Change Economics
Climate Policy



MSEEM Faculty – World Renowned

Michael Elliott

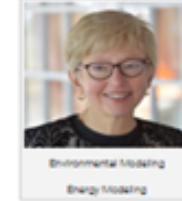


Environmental Planner
Mediator

Environmental Planner
Mediator

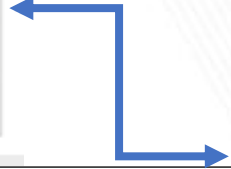


Valerie Thomas



Environmental Modeling
Energy Modeling

Environmental & Energy Modeling

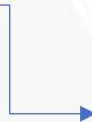


Michael Rodgers



Transportation and Energy
Air Quality
Environmental Science

Transportation & Energy
Environmental Science
Air Quality



Dan Matisoff



MSEEM Co-Director
Environmental Policy
Energy Policy Analysis

Environmental Policy &
Corporate Social Responsibility



Bryan Norton



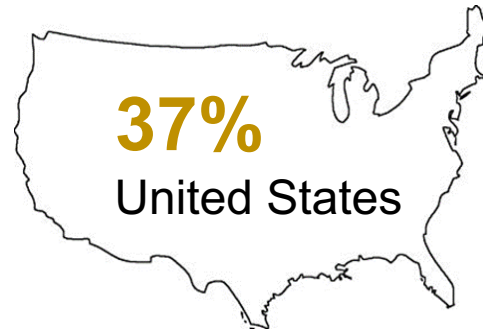
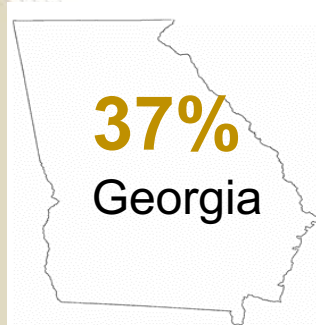
Sustainable Theory
Sustainable Practices

Sustainable Theory
&
Practices

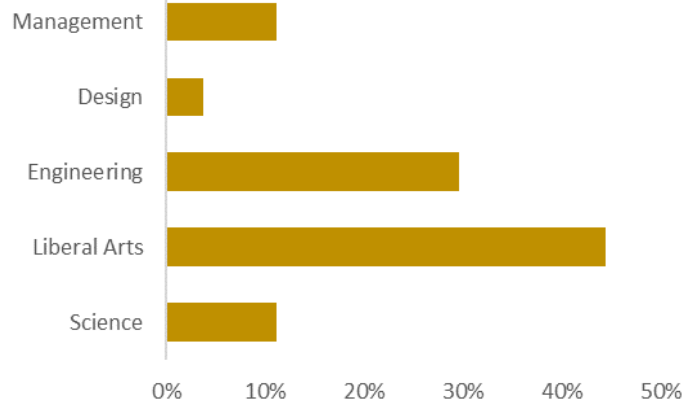


2020 Profile: Inaugural Class of MSEEM is the only sustainability-oriented Masters Program in Georgia

Applications from Coast to Coast and Around the Globe



Academic Backgrounds



Year One – 2020

24 motivated & accomplished scholars selected for year one:

- Different schools
- Range of work experience & education
- 5 MSEEM Funded Fellows

Meet The Inaugural Class of 2020

14 MSEEM Graduate Students

- 11 Full-time
- 3 Part-time

4 CSEEM Students

Highly diverse and qualified

- 67% with GPA > 3.0
- Degrees
 - ⊕ 11% Science
 - ⊕ 44% Liberal Arts
 - ⊕ 30% Engineering
 - ⊕ 15% Management



High Demand for Accredited Sustainability Skills

Job Forecast by the numbers

Between 2012 – 2022, increasing by 15%

Source: Bureau of Labor Statistics

These job categories include:

- Clean Energy Sector
- Conservation & Nonprofits
- Corporate Social Responsibility
- Regulatory & Governmental
- Environmental Engineering
- Consulting

Benefit: *“The MSEEM/CSEEM degree opens doors to the increased demand for sustainability professionals.”*

North Georgia Fires in 2016



Flood water after Hurricane Matthew



Farm damage from Hurricane Michael



PUBP Class Listings – Fall 2020

Required courses

[PUBP 8803](#)

Sustainable Energy and Environmental Management Policy and Management – Dr. Matisoff

Quantitative Methods elective (need 2 in total)

[PUBP 6114](#)

Applied Policy Methods and Data Analysis – Dr. Rogers

[PUBP 8200](#)

Advanced Research Methods I – Dr. Rogers

[PUBP 6120](#)

Policy Cost Ben Analysis – Dr. Massetti

Sustainable Energy & Environmental Management (need 3 in total)

[PUBP 6300](#)

Earth Systems – Dr. Rodgers

[PUBP 6330](#)

Environmental Law – Dr. Slieper

[PUBP 6352](#)

Utility Regulation & Policy – Dr. Brown

Policy & Management (need 1 in total)

[PUBP 6116](#)

Microeconomic Analysis in Public Policymaking – Dr. Marco

[PUBP 6201](#)

Public Policy Analysis – Dr. Bullinger

[PUBP 6314](#)

Policy Tools for Environmental Management – Dr. Elliott

Stackable and Flexible Programs

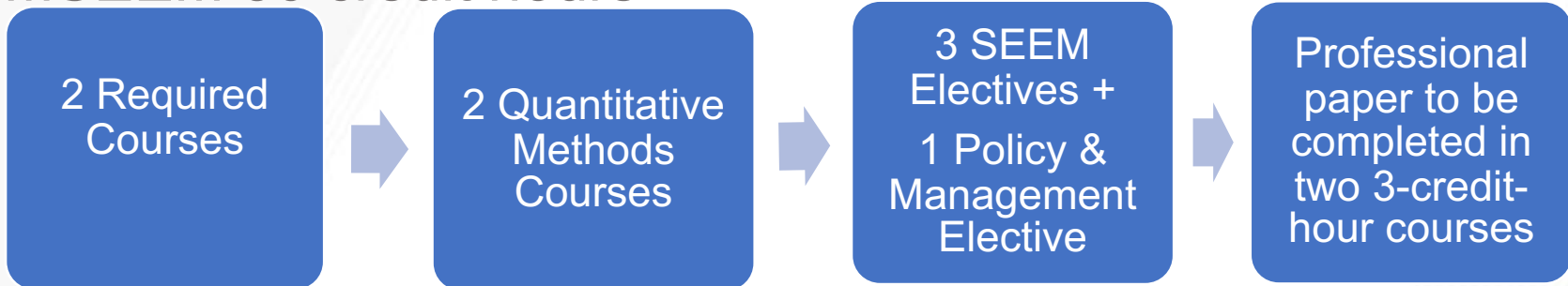
MSEEM on campus or via distance learning*

CSEEM can feed into MSEEM

CSEEM 12 credit hours



MSEEM 30 credit hours



* Should numbers permit

Complete List of Courses

Required Courses:

- PUBP 8803: Sustainable Energy & Environmental Management
- PUBP 6312: Economics of Environmental Policy
- PUBP 6801: Professional Paper

Methods Electives:

- PUBP 6114: Applied Policy Methods
- PUBP 6120: Cost Benefit Analysis
- PUBP 6218: Quantitative Models in Public Policy
- PUBP 6530/CP 6514: Intro to GIS
- PUBP 8200: Advanced Research Methods 1
- PUBP 8205: Advanced Research Methods 2
- PUBP 8751: Big Data and Public Policy
- CETL 6490: Advanced Environmental Data Analysis
- CP 6541: Environmental Analysis Using GIS
- ISYE 8803: Life Cycle Assessment
- MGT 6203: Data Analytics in Business
- MSE 6759: Materials in Environmentally Conscious Design and Manufacturing

Policy & Management Electives:

- PUBP 6010: Ethics and the Policy Profession
- PUBP 6012: Fundamentals of Policy Process
- PUBP 6017: Public Management
- PUBP 6018: Policy Implementation and Administration
- PUBP 6116: Microeconomic Analysis in Public Policymaking
- PUBP 6118: Public Finance and Policy
- PUBP 6201: Public Policy Analysis
- PUBP 6221: Policy and Program Evaluation
- PUBP 6314: Policy Tools for Environmental Management
- PUBP 6350: Energy Policy and Markets
- PUBP 6354: Climate Policy
- PUBP 6401: Science, Technology, and Public Policy
- PUBP 8540: Advanced Environmental Policy
- PUBP 8803: Environmental Policy and Politics
- CP 6016: Growth Management Law and Implementation
- CP 6223: Policy Tools for Environmental Management
- MGT 8803: Understanding Markets with Data Science

SEEM OR P&M Electives:

- PUBP 6326: Environmental Values and Policy Goals
- PUBP 6327: Sustainability and Environmental Policy
- PUBP 6330/CP 6261: Environmental Law
- PUBP 6350: Energy Policy and Markets
- PUBP 6701: Energy Technology Policy

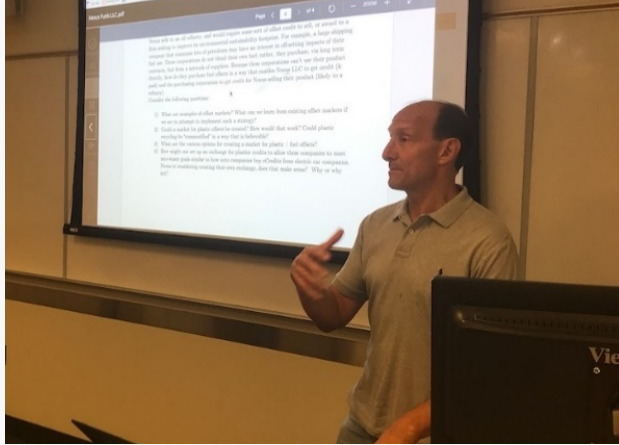
Sustainable Energy & Environmental Management Electives:

- PUBP 6300: Earth Systems
- PUBP 6310: Environmental Issues
- PUBP 6350: Energy Policy and Markets
- PUBP 6352: Utility Regulation and Policy
- PUBP 6380: Economics of Natural Resources and the Environment
- PUBP 8803: Environmental Finance OR Sustainability and Environmental Policy OR Smart Cities
- AE 4803/8803: Energy Efficiency and Environmental Impacts
- ARCH 6531: Environmental Systems I
- BC 6002: Issues in Sustainable Construction Technology
- BC 6731: Zero Energy Housing
- CEE 4300: Environmental Engineering Systems
- CEE 4395: Environmental Systems Design Project
- CEE 4620: Environmental Impact Assessment
- CEE 6314: Fundamentals of Environmental Modeling and Mathematics
- CEE 6345: Sustainable Engineering
- CEE 6390: Air Pollutant Formation and Control
- CEE 6625: Transportation, Energy, and Air Quality
- CEE 6790: Air Pollution Physics and Chemistry
- CHBE 4803/8803: Chemical Engineering of Energy Systems
- CHEM 8833: Funds./Challenges for a Sustainable Chemical Enterprise
- CP 6190: Introduction to Climate Change Planning
- CP 6213: Urban Environmental Planning and Design
- CP 6214: Environmental Planning and Impact Assessment
- CP 6217: Climate Change and the City
- CP 6233: Sustainable Urban Development
- EAS 6132: Introduction to Climate Change
- EAS 6135: Introduction to Complex Environmental Systems
- EAS 8803: Climate and Global Change OR Environmental Geochemistry
- EAS 8813: Biodiversity Dynamics
- ECON 6380: Economics of Natural Resources and the Environment
- ECON 7032: Macroeconomics of Innovation
- HTS 6116: The Environment in World History
- HTS 6120: Inequality, Science and Technology
- INTA 8803: Energy and International Security
- LMC 6215: Issues in Media Studies
- MGT 6359: Business Strategies for Sustainability
- MGT 6369: Sustainable Business Consulting Practicum
- MSE 6759: Materials in Environmentally Conscious Design and Manufacturing
- PHIL 6710: Ethics of Biotechnology and Bioengineering Research

Popular Courses

Course Number	Course Name	Type	ERG	ENV	POL	ECON	CIT	TRN	BUS
PUBP 6114	Applied Policy Methods	M							
PUBP 6116	Microeconomics Policy Analysis	P&M							
PUBP 6120/8803	Cost Benefit Analysis for Policy	M							
PUBP 6223/CP 6233	Sustainable Urban Development	SEEM							
PUBP 6300	Earth Systems	SEEM							
PUBP 6312	Economics of Environmental Policy	R							
PUBP 6314/CP 6223	Policy Tools for Environmental Management	P&M							
PUBP 6327	Sustainability and Environmental Policy	SEEM, P&M							
PUBP 6352/8833	Utility Regulation and Policy	SEEM							
PUBP 6354	Climate Policy	P&M							
PUBP 6625/CEE 6625	Transportation, Energy, and Air Quality	SEEM							
PUBP 6701/ISYE 6701	Energy Technology and Policy	SEEM							
PUBP 8751	Big Data and Policy	M							
PUBP 8803	Sustainable Energy and Environmental Management	R							
CP 6016	Growth Management Law	P&M							
INTA 8803	Energy and International Security	SEEM							
MGT 6359	Business Strategies for Sustainability	SEEM							
MGT 6369	Sustainable Business Practicum	SEEM							
MGT 8803	Understanding Markets with Data Science	P&M							

View the complete course list at <https://cepl.gatech.edu/degrees/courses>.



Guest Lecture
Eric Hartz



Guest Lecture
Anna Lasso



PUBP 8803: Required Sustainable Energy and Environmental Management

Professor:
Dr. Daniel Matisoff

“

I joined The Coca-Cola Company because I knew that making even a small difference could have a meaningful impact globally.

”

Ben Jordan
SENIOR DIRECTOR,
ENVIRONMENTAL POLICY



Guest Lecture
Ben Jordan



Part 1: Sustainability Theory and Philosophy

Conservationism;
Preservationism;
Sustainable Development;
Malthus vs. Prometheus

Part 2: Tools for Managing Sustainability

Regulations; Markets;
Participatory Processes; Corporate Social Responsibility

Part 3: Case Analysis

Guest Lectures: Industry Perspectives

- Guest Lectures from the Atlanta metropolitan area strengthen linkages to professional practice.
- Guest Lectures are drawn from multiple sectors of the Atlanta business, government, and not-for-profit community.



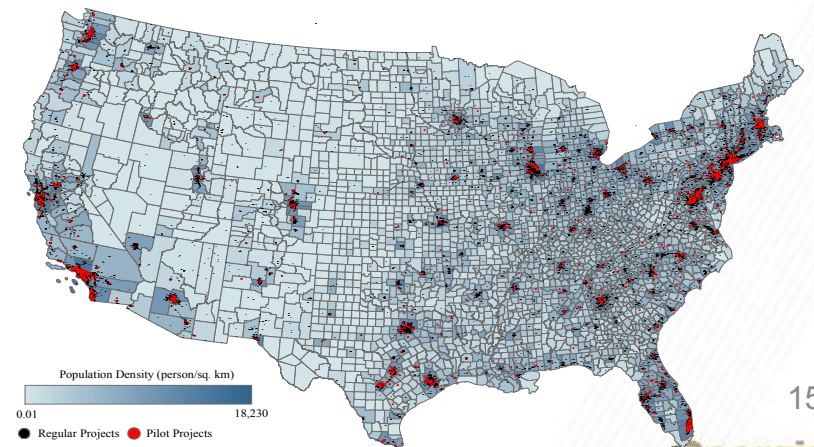
Capstone Project

- The MSEEM summer term focuses on the Research Capstone Project 6 credits
- Students have flexibility to identify and define a real-world problem in the area of energy, sustainability and/or environment and select a methodology to assess valuable solutions.
- Students can develop the project individually or as a team.

The Kendeda Building for Innovative Sustainable Design



LEED Construction & Pilot Projects



Illustrative Capstone Case Examples

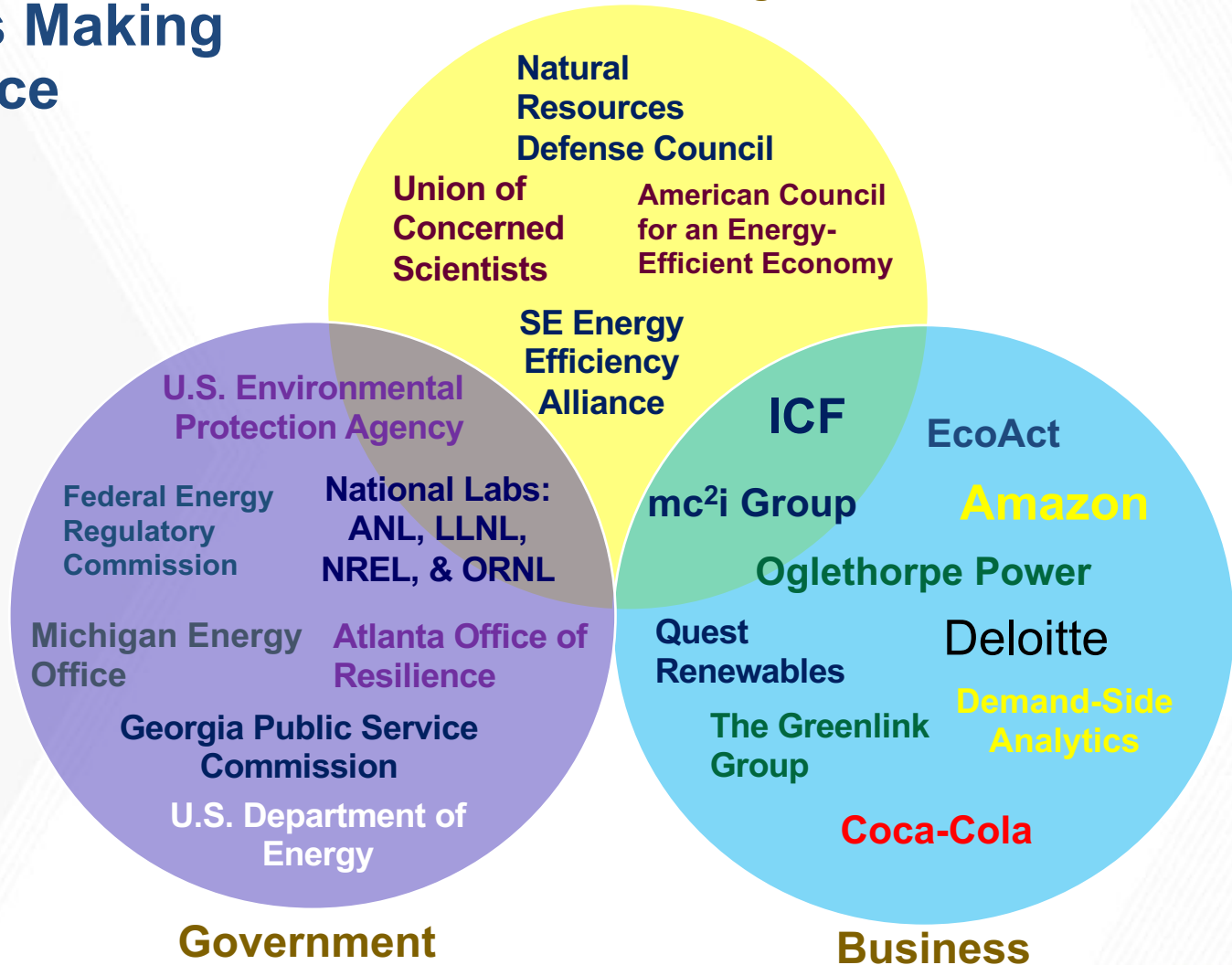
- GT as a learning laboratory
 - Environmental and economic impacts of car rental services at GT
- Community-based projects
 - Case Study: How sustainable is urban agroforestry?
 - Integrating community needs into regional resilience planning
 - The role of local government to implement sustainability actions
- Business-related projects
 - Value of incorporating Sustainable Development Goals (SDGs) in business
 - Airline Sustainable Supply Chain



Jobs: Graduates Making A Difference



Non-Governmental Organizations



A Philanthropic Gift for Student Fellowships



Thanks to a generous gift,
MSEEM offers full graduate
fellowships for
5 on-campus full-time students
per year for the first 3 years.

Frequently Asked Questions

1. What are the backgrounds of C/MSEEM students?
2. What kind of opportunities are available for graduates of the C/MSEEM?
3. How many students are likely to be in each class?
4. How long does it take to complete the MSEEM?
5. Can we take the C/MSEEM part-time while working?
6. What courses do I need to take to complete the degree program?
7. Can we use the CSEEM credits for the MSEEM?
8. What kind of financial aid is available?
9. Can C/MSEEM students get credit for an elective course that is not currently on our approved list?