

MASTER OF SUSTAINABLE ENERGY AND ENVIRONMENTAL MANAGEMENT

The Master of Sustainable Energy and Environmental Management (MSEEM) curriculum is a multidisciplinary program with courses taught in schools across Georgia Tech including Public Policy, Business, City and Regional Planning, Civil and Environmental Engineering, and Economics, among others. MSEEM can be completed either full time (4-4-2 courses in a single year) or part time (2-2-1 courses each year for 2 years).

Program of Study

Code	Title	Credit Hours
Required courses		
PUBP 6312	Economics of Environmental Policy	3
PUBP 6360	Sustainable Energy & Environmental Management	3
PUBP 6801	Research Paper	6
Electives ¹		
Quantitative Methods		6
PUBP 6114	Applied Policy Methods and Data Analysis	
PUBP 6120	Cost Benefit Analysis for Policy	
PUBP 6218	Quantitative Models in Public Policy	
PUBP 6530	Introduction to Geographic Information Systems	
PUBP 8200	Advanced Research Methods I	
PUBP 8205	Advanced Research Methods II	
PUBP 8751	Big Data and Public Policy	
PUBP 8803	Special Topics (Cost Benefit Analysis)	
PUBP 8803/ ISYE 8813	Special Topics (Life Cycle Cost Analysis)	
CEE 6355	Industrial Ecology in Environmental Engineering	
CEE 6790	Air Pollution Physics and Chemistry	
CETL 6490	Advanced Environmental Data Analysis	
CP 6541	Environmental Analysis Using GIS	
EAS 6200	Environmental Geochemistry	
EAS 6490	Advanced Environmental Data Analysis	
EAS 6500	Climate and Global Change	
MGT 6203	Data Analytics in Business	
MGT 6314	Understanding Markets with Data Science	
MGT 6451	Business Intelligence and Analytics	
MSE 6759	Materials in Environmentally Conscious Design and Manufacturing	
Sustainable Energy & Environmental Management		9
PUBP 6120	Cost Benefit Analysis for Policy	
PUBP 6300	Earth Systems	
PUBP 6310	Environmental Issues	
PUBP 6326	Environmental Values and Policy Goals	

PUBP 6327	Sustainability and Environmental Policy	
PUBP 6330	Environmental Law	
PUBP 6350	Energy Policy & Markets	
PUBP 6352	Utility Regulation and Policy	
PUBP 6701	Energy Technology Policy	
PUBP 8803	Special Topics (Environmental Finance)	
PUBP 8803	Special Topics (Smart Cities)	
PUBP 8833	Special Topics (Utility Regulation & Policy)	
PUBP 8803/ ISYE 8813	Special Topics (Life Cycle Cost Analysis)	
AE 4803/8803	Special Topics (Energy Efficiency & Environmental Impacts)	
ARCH 6531	Environmental Systems I	
BC 6002	Issues in Sustainable Construction Technology	
BC 6731	Zero Energy Housing	
CEE 4160	Smart and Sustainable Cities	
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 4030/8803	Chemical Engineering of Energy Systems	
CHBE 6743	Fundamentals and Challenges for a Sustainable Chemical Enterprise	
CP 6190	Introduction to Climate Change Planning	
CP 6213	Urb Env Plan & 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 6200	Environmental Geochemistry	
EAS 6500	Climate and Global Change	
ECON 6380	Economics of Natural Resources and the Environment	
ECON 7032	Macroeconomics of Innovation	
HTS 6116	The Environment in World History	
INTA 3042	Energy and International Security	
MGT 6369	Sustainable Business Practicum	
MGT 6359	Business Strategies For Sustainability	
Policy & Management		3
PUBP 6010	Ethics, Epistemology, and Public Policy	
PUBP 6012	Fundamentals of Policy Processes	
PUBP 6017	Public Management	
PUBP 6018	Policy Implementation and Administration	
PUBP 6116	Microeconomics for Policy Analysis	

PUBP 6118 Public Finance Policy	
PUBP 6201 Public Policy Analysis	
PUBP 6221 Policy and Program Evaluation	
PUBP 6314 Policy Tools for Environmental Management	
PUBP 6326 Environmental Values and Policy Goals	
PUBP 6327 Sustainability and Environmental Policy	
PUBP 6330 Environmental Law	
PUBP 6350 Energy Policy & Markets	
PUBP 6352 Utility Regulation and Policy	
PUBP 6354 Climate Policy	
PUBP 6701 Energy Technology Policy	
PUBP 8540 Advanced Environmental Policy	
CP 6223 Policy Tools for Environmental Management	
CP 6261 Environmental Law	
Total Credit Hours	30

¹ Hours must include two (2) quantitative courses, three (3) SEEM courses, and one (1) policy & management course.

Other program guidelines:

- Students may take one section of PUBP 6801 pass/fail. The other section of PUBP 6801 must be for letter grade. All other courses must be taken on a letter-grade basis.
- Students taking two sections of PUBP 6801 in the final term to complete the program are considered to meet full-time requirements for the summer. One section of PUBP 6801 must be for letter-grade.
- All courses used to satisfy the course requirements must be completed with a grade of C (2.00) or better.
- A maximum of 3 credit hours of transfer credit may be used to satisfy the course requirements. This includes courses taken at another institution or credit earned through the AP or IB program, assuming the scores meet Georgia Tech minimum standards.