BACHELOR OF SCIENCE IN EARTH AND ATMOSPHERIC SCIENCES - GENERAL

The EAS degree is comparable to traditional degrees in meteorology and environmental sciences, but the program has several unique attributes. EAS courses provide "hands-on" experiences in collection and interpretation of environmental data and in predictive modeling. The integrated approach of the program gives a broad environmental background while still allowing students to specialize in meteorology, earth science, education, or a business option. The program prepares students for graduate study or immediate employment in fields such as meteorology, air quality, environmental chemistry, exploration geophysics, geological engineering, geological hazards, impact assessment, and environmental policy. Electives (30 hours), both within the School and in other units of Georgia Tech, allow students considerable flexibility in tailoring their degree programs according to individual career goals. The School provides incentives and encouragement for undergraduate students to participate in ongoing research with the faculty.

EAS Undergraduate Information [http://www.eas.gatech.edu/academics/prospective]

Wellness
APPH 1040 Scientific Foundations of Health 2
or APPH 10 The Science of Physical Activity and Health

Core A - Essential Skills
ENGL 1101 English Composition I 3
ENGL 1102 English Composition II 3
MATH 1552 Integral Calculus 4

Core B - Institutional Options
CS 1371 Computing for Engineers 2 3

Core C - Humanities
Any HUM [http://www.catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c] 6

Core D - Science, Math, & Technology
PHYS 2211 Introductory Physics I 2 4
PHYS 2212 Introductory Physics II 2 4
MATH 1551 Differential Calculus 2 2
MATH 1553 Introduction to Linear Algebra 2 2

Core E - Social Sciences
Select one of the following: 3

HIST 2111 The United States to 1877
HIST 2112 The United States since 1877
INTA 1200 American Government in Comparative Perspective
POL 1101 Government of the United States
PUBP 3000 American Constitutional Issues
Any SS [http://www.catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-e] 9

Core F - Courses Related to Major
MATH 2551 Multivariable Calculus 2 4
MATH 2552 Differential Equations 2 4
CHEM 1211K Chemical Principles I 2 4

CHEM 1212K Chemical Principles II 2 4

EAS Core
EAS 1600 Introduction to Environmental Science 4
EAS 2600 Earth Processes 4
EAS 2655 Quantitative Techniques in Earth and Atmospheric Sciences 3
EAS 3603 Thermodynamics of Earth Systems 3

Select two of the following: 6
EAS 3610 Introduction to Geophysics
EAS 4220 Environmental Geochemistry
EAS 4305 Physical and Chemical Oceanography
EAS 4370 Physics of Planets
EAS 4655 Atmospheric Dynamics
EAS 4740 Atmospheric Chemistry Laboratory
EAS 4221 Environmental Geochemistry Lab or EAS 4656 Atmospheric Dynamics Practicum
EAS 4420 Environmental Field Methods & EAS 4610 Earth System Modeling

EAS Technical Electives
Select 15 credit hours from the following: 1 15
CEE 4210 Hydrology
CEE 4300 Environmental Engineering Systems
CEE 4330 Air Pollution Engineering
EAS 1601 Habitable Planet
EAS 2420 Environmental Measures of Urban and Regional Change
EAS 2551 Introduction to Meteorological Analysis
EAS 2750 Physics of the Weather, Physics Of The Weather
EAS 3000-level or higher

Free Electives
Free Electives 3 18

Total Credit Hours 122

Pass/fail allowed only for Humanities, Social Sciences, and Free Electives.

1 Limit six credit hours total of EAS 4699 and EAS 4651 towards Technical Electives.
2 Minimum grade of C required.
3 GT 1000 recommended

International Plan
The EAS with International Plan (EAS-IP) is designed to give a student a solid, global competence within the context of an Earth and Atmospheric Science degree.

The major course requirements are the same for both EAS and EAS-IP. Where they differ is that for the EAS-IP degree, a student:

1. Spends 26 weeks abroad engaged in any combination of study abroad, research, or internship.
2. Takes their Social Science/Humanities electives in targeted areas:
   a. International relations
   b. Global economics
   c. A course about a particular country or region

Bachelor of Science in Earth and Atmospheric Sciences - General
3. Complete the equivalent to two years of college-level language study. See Georgia IP requirements for the different options: www.internationalplan.gatech.edu/ (http://www.internationalplan.gatech.edu)
4. Complete a capstone course that combines their global experience with their EAS degree.

EAS Undergraduate Information (http://www.eas.gatech.edu/academics/degree_req)

Research Option

The BS in Earth and Atmospheric Sciences with Research Option allows students to emphasize their interest in research. To complete the Research Option in the School of Earth and Atmospheric Sciences students must:

1. Complete at least nine units of undergraduate research
   a. Courses should span at least two, preferably three terms (note there is also a two semester sequence of proposal and thesis writing courses - see below)
   b. Research may be for either pay (EAS 4698) or credit (EAS 4699)
   c. At least six of the nine required credit hours should be on the same topic

2. Complete a research proposal outlining their research topic and project for the thesis while taking LMC 4701.

3. Write an undergraduate thesis/report of research on their findings while taking LMC 4702.

To submit your intent form to Undergraduate Research Opportunities Program (UROP), please go to the web form at http://undergradresearch.gatech.edu/ This form must be completed and can also be reached from the main UROP webpage.

For further information, consult the EAS Undergraduate Coordinator.

General Research Option Information (http://www.catalog.gatech.edu/academics/special-academic-programs/undergraduate-research-opportunities-program)

BS/MS Earth and Atmospheric Sciences

EAS offers a BS/MS Program. EAS majors may apply to the BS/MS program after completing at least thirty semester credit hours at Georgia Tech with a GPA of at least 3.5.

Students admitted to the program must maintain a cumulative GPA of at least 3.0.

As part of the program, students may use up to 6 credit hours of graduate-level coursework in the major discipline for both degrees.

To apply, complete the BS/MS application form, a biographical statement, and two letters of recommendation.

EAS Undergraduate Information (http://www.eas.gatech.edu/academics/5Year_BSMS)