QSS major
[Quantitative Sciences]

English track

Emory's Quantitative Sciences (QSS) major offers a rigorous and accessible way to combine mastery of quantitative approaches with whatever discipline or career path interests you. This includes the humanities. Our English track enables you to use quantitative analysis to understand how people communicate. This combination of skills will put you at the forefront of nearly every field.

Career options

By combining English with a quantitative methods background, you're particularly well-prepared to pursue careers in journalism, marketing communications, publishing, technical writing, and grant writing—although the combination of strong communication skills and quantitative acumen qualifies you for positions well beyond these areas.

Nearly every technology firm needs technical writers who can gather, develop, and disseminate technical information to customers, designers, and manufacturers. Publications such as The Wall Street Journal and Wired rely on writers who can comprehend, analyze, and explain complex quantitative data. Additionally, it is common for schools of design, engineering, and business to hire individuals with this combination of writing and technical training as instructors.

big data
bigger purpose

EMORY UNIVERSITY
QUANTITATIVE SCIENCES MAJOR

think
big.
think
emory.

Research opportunities

Quantitative studies in English comprise a substantial part of the research taking place in the burgeoning field of digital humanities. Researchers in English apply digital and quantitative methods as they:

- Investigate genre, stylistics, and grammar using large corpora of texts from different registers (e.g., conversation, formal speech, narrative fiction, academic article);
- Conduct "distant readings" of up to millions of books at a time through data mining and visualization;
- Visualize the circulation of texts and people through space and time by using geographic information system (GIS) tools.
- Curate and explore digital archives.
- Analyze how and why writers employ quantitative arguments in texts from a variety of fields both in and outside the university.

- Assess their academic programs via portfolios or other corpora of student texts.

Graduate study

Interested in pursuing a graduate degree? English-studies programs that emphasize digital methods as well as programs in technical communication, rhetoric and scientific communication, applied linguistics, human-computer interaction, library science, and museum studies—all of which are available at the master's and Ph.D. levels—will enable you to build on your combined skills.

Technical-writing degrees prepare you for leadership positions designing and producing technical content, supervising publication departments, and improving human/machine interaction. Graduate programs in rhetoric and scientific communication train you

to conduct research in scientific and technical communication in industry or government.

Quantitative Sciences Program Requirements

As a QSS major, you must take:

- At least 7 QSS courses: 4 core and 3 upper-level electives
- A minimum of 6 additional courses in your chosen substantive track
- Additional electives (either in the QSS major or in your substantive track) may need to be taken to fulfill the QSS degree requirements.

Upper-Level Electives

Topics may include computational modeling, advanced statistics, GIS, technical writing, longitudinal analysis, maximum likelihood estimation, and experimental methods, among others.

EMORY
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Institute for Quantitative Theory and Methods

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