



GRE[®]

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We invite
you to

**Take a
Closer
Look...**

For more information
about this GRE Subject
Test, contact the GRE
Program:

Phone: 1-609-683-2002

Fax: 1-609-683-2040

E-mail: gretests@ets.org

Educational Testing Service
Rosedale Road
Princeton, NJ 08541

The GRE[®] Chemistry Test

Does your graduate department require or recommend that graduate applicants take the Chemistry Subject Test offered by the *Graduate Record Examinations[®]* Program?

This Subject Test can be very useful in distinguishing among candidates whose credentials are otherwise similar. The test measures undergraduate achievement and provides a common yardstick for comparing the qualifications of students from a variety of colleges and universities with different standards. Consider these factors:

Predictive validity

Subject Test scores are a valid predictor of graduate school performance, as confirmed by a recent meta-analysis performed by independent researchers of over 1,700 studies containing validity data for GRE tests.* This study showed that GRE Subject Tests are reliable predictors of a range of outcome measures, including first-year graduate grade-point average, cumulative graduate grade-point average, comprehensive examination scores, publication citation counts, and faculty ratings. For more information about the predictive validity of the GRE tests, visit www.ets.org/gre/validity.html.

Content that reflects today's curricula

The Chemistry Test contains about 130 multiple-choice questions covering current topics representing four major areas — analytical chemistry, inorganic chemistry, organic chemistry, and physical chemistry — as well as interrelationships among the fields. A summary list of test content areas can be found on the back of this sheet. Additional information about the test and a full-length practice test are provided FREE with test registration and can be downloaded at www.ets.org/gre/greprep.

Developed by leading educators in the field

The content and scope of each edition of the test are specified and reviewed by a distinguished team of undergraduate and graduate faculty representing colleges and universities across the country.

*Source: "A comprehensive meta-analysis of the predictive validity of the Graduate Record Examinations[®]: Implications for graduate student selection and performance." Kuncel, Nathan R.; Hezlett, Sarah A.; Ones, Deniz S., *Psychological Bulletin*, January 2001, Vol. 127(1), 162-181.

Who develops the GRE Chemistry Test?

Individuals who serve or have recently served on the Committee of Examiners are faculty members from the following institutions:

Allegheny College

Augusta State University

Georgetown University

Michigan State University

Oregon State University

Reed College

SUNY-Binghamton

University of Kentucky

University of New Hampshire

University of New Orleans

University of Wisconsin-LaCrosse

Virginia Polytechnic Institute and State University

Williams College

Committee members are selected with the advice of the American Chemical Society.

Test questions are written by committee members and by other subject-matter specialists from ETS and colleges and universities across the country.

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Test Content

I. ANALYTICAL CHEMISTRY (15%)

- A. Data Acquisition and Use of Statistics
- B. Solutions and Standardization
- C. Homogeneous Equilibria
- D. Heterogeneous Equilibria
- E. Instrumental Methods
- F. Environmental Applications
- G. Radiochemical Methods

II. INORGANIC CHEMISTRY (25%)

- A. General Chemistry
- B. Ionic Substances
- C. Covalent Molecular Substances
- D. Metals and Semiconductors
- E. Concepts of Acids and Bases
- F. Chemistry of the Main Group Elements
- G. Chemistry of the Transition Elements
- H. Special Topics

III. ORGANIC CHEMISTRY (30%)

- A. Structure, Bonding, and Nomenclature
- B. Functional Groups
- C. Reaction Mechanisms
- D. Reactive Intermediates
- E. Organometallics
- F. Special Topics

IV. PHYSICAL CHEMISTRY (30%)

- A. Thermodynamics
- B. Quantum Chemistry and Applications to Spectroscopy
- C. Dynamics



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