MASTER OF SCIENCE IN THE FIELD OF CHEMISTRY

GW’s graduate chemistry program fosters active learning through a research-based curriculum. Beginning with advanced coursework and training in the discipline as a whole and one or more selected subdisciplines, our award-winning graduate students engage in cutting-edge research alongside expert faculty. Research areas include proteomics, and bioanalytical methods development, synthetic medicinal chemistry and drug design, combustion, battery chemistry and renewable energy sources, laser and molecular spectroscopies, nano- and biomaterials, modeling, coordination chemistry and novel inorganic framework structures.

The MS program offers thesis and non-thesis tracks to prepare individuals for distinctive career or professional paths. All students take core courses and comprehensive examinations in the fields of analytical, inorganic, organic and physical chemistry.

The MS is a STEM designated program.

ADMISSIONS

Admission deadlines:
- Fall – April 1 (February 1 for fellowship consideration);
- Spring – October 1

Standardized test scores:
- GRE general test required; GRE subject test recommended (institutional code 5246). GRE general test waived for applicants who hold a JD, MD, or PhD.

The Test of English as a Foreign Language (TOEFL), the academic International English Language Testing System (IELTS), or the PTE Academic is required of all applicants except those who hold a bachelor’s, master’s, or doctoral degree from a college or university in the United States or from an institution located in a country in which English is the official language, provided English was the language of instruction.

Minimum scores for the program are:
- Academic IELTS: an overall band score of 6.0 with no individual score below 5.0; or
- TOEFL: 550 on paper-based or 80 on Internet-based; or
- PTE Academic: 53

Prerequisite:
A bachelors degree in chemistry or a related field.

Recommendations:
One (1) recommendation required.

Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission. If transcripts are in a language other than English, English language translations must be provided. The English translation alone should be uploaded into your application.

Statement of purpose:
In an essay of 250 - 500 words, state your purpose in undertaking graduate study in your chosen field. Include your academic objectives, research interests, and career plans. Also discuss your related qualifications, including collegiate, professional, and community activities, and any other substantial accomplishments not already mentioned on the application. If you are applying for an assistantship or fellowship, you should also describe any teaching experience you have had.

For more information on the admission process, please visit the Columbian College of Arts and Sciences Frequently Asked Questions (http://columbian.gwu.edu/graduate/admissions/faqs/) page.

Supporting documents not submitted online should be mailed to:
Columbian College of Arts and Sciences - Graduate Admissions Office
The George Washington University
801 22nd Street NW, Phillips Hall 215
Washington DC 20052

Contact for questions:
askccas@gwu.edu – 202-994-6210 (phone) – 202-994-6213 (fax)
8:30 am - 5:30 pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled:

The general requirements stated under Columbian College of Arts and Sciences, Graduate Programs (http://bulletin.gwu.edu/arts-sciences/#degreeregulationtext).
Thesis option—30 credits of approved courses are required, including CHEM 6998 Thesis Research–CHEM 6999 Thesis Research, which may be in analytical, inorganic, organic, or physical chemistry.

Nonthesis option—36 credits of approved courses are required, including CHEM 6395 Research. Up to 9 credits in other departments related to the student’s area of interest (e.g., Forensic Sciences) may be included in the program, subject to the approval of the Department of Chemistry. Students who are or will be employed in organizations dealing with science and technology policy programs may select from specified courses offered by Information Systems and Technology Management, Political Science, Public Policy and Public Administration, and the Elliott School of International Affairs.

Coursework must include a minimum of five graduate-level courses; at least four of these courses must be core courses as defined in the department’s Guide for Graduate Students; at least three must be offered by the Department of Chemistry. At least two graduate-level courses must be taken outside of the student’s subdiscipline and in at least two other subdisciplines/disciplines. Candidates are required to pass a master’s comprehensive examination as described in the department’s Guide for Graduate Students.

**Note:** All entering students in graduate chemistry programs are required to take the American Chemical Society graduate level placement examinations, given by the Department of Chemistry, prior to matriculation. The four placement examinations (in the disciplines of analytical, organic, inorganic, and physical chemistry) are designed to cover the subject matter in the disciplines generally taught in undergraduate programs preparatory for graduate work in chemistry, and the results are used by the department to advise the individual student in planning a program of courses appropriate to the student’s background. All graduate students are required to participate in the seminar and colloquium programs. Upon consultation with course instructors, specific course prerequisites may be waived.

Visit the program website (https://chemistry.columbian.gwu.edu/ms-chemistry/) for additional information.