MASTER OF SCIENCE IN THE FIELD OF ANATOMICAL AND TRANSLATIONAL SCIENCES

The master of science in anatomical and translational sciences (M-ATS) is a two-year, non-thesis program designed to give students advanced knowledge in basic medical sciences, clinical studies, and clinical and translational research methods. The program provides students with an in-depth understanding of human gross anatomy, embryology, functional histology, neuroanatomy, genomic medicine, bioinformatics, systems physiology, pharmacology, pharmacogenomics, and modern stem cell biology. It also provides students with a solid background in personalized medicine and the methodological aspects of translational research and clinical investigation.

This program is designed to maximize students’ academic and career opportunities by enhancing competitiveness of applications to medical schools, physician assistant programs, or advanced graduate degree programs. The M-ATS program has an interdisciplinary curriculum drawing upon the unique strengths and collective expertise of three departments of the GW School of Medicine and Health Sciences—anatomy and regenerative biology, pharmacology and physiology, and clinical research and leadership.

The M-ATS is a STEM-designated program.

Visit the program website (https://smhs.gwu.edu/anatomy/education/m-ats/) for additional information.

ADMISSIONS

Admission

Fall - June 15

Requirements:

MCAT and GRE scores are not required. However, applicants who have completed the MCAT or GRE should upload a copy of their official scores as a supporting document to their online application.

Recommendations:

Two (2) recommendations required.

One faculty recommendation emphasizing the applicant’s academic ability; and one work-related, research-related, or volunteer recommendation highlighting the applicant’s commitment to a career in health care or biomedical sciences.

Prior academic records:

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.

Select one of the following:

- 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.

Prerequisite requirements:

Minimum undergraduate GPA: 3.3. Minimum undergraduate BCPM: 3.0. Bachelor's degree in life sciences is recommended but NOT required. All premedical prerequisites should be completed with a C- or better. Online courses are typically not accepted, but exceptions are made due to courses moved online during the COVID-19 pandemic. Applicants must indicate if they are enrolled in a pre-medical requirement course no later than the final semester prior to their intended enrollment at GW. Applicants who previously applied to medical schools need to include their AMCAS-verified application as a PDF file after their personal essay. For more information on premed coursework, please see: http://smhs.gwu.edu/anatomy/education/gcats/application (http://smhs.gwu.edu/anatomy/education/gcats/application/)

Statement of purpose:

In an essay of 1,000 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.

Additional requirements:

Applicants are required to submit a BCPM (science-math) GPA calculation document. The BCPM calculation form is available here: https://advising.columbian.gwu.edu/bcpm-calculator-and-submission-instructions (https://advising.columbian.gwu.edu/bcpm-calculator-and-submission-instructions/)

International applicants only:

Please follow this link - https://columbian.gwu.edu/international-graduate-applicants (https://columbian.gwu.edu/international-graduate-applicants/) - to review the International Applicant Information carefully for details on required documents and English language requirements. Please note: international students who require a student visa from GW are not eligible to apply for admission to the program.

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

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Frequently Asked Questions
Please visit the Columbian College of Arts and Sciences Frequently Asked Questions (http://columbian.gwu.edu/graduate/admissions/faqs/) page.
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).

40 credits in required courses.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Required</strong></td>
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<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>ANAT 6130</td>
<td>Clinically Oriented Human Embryology</td>
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<tr>
<td>ANAT 6150</td>
<td>Clinically Oriented Human Microscopic Anatomy</td>
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<td>ANAT 6160</td>
<td>Human Clinical Neuroanatomy</td>
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<td>ANAT 6181</td>
<td>Clinically Oriented Human Gross Anatomy</td>
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<tr>
<td>ANAT 6292</td>
<td>Projects in Anatomical Sciences: Introduction to Neuroradiology</td>
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And one or both of the following*

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANAT 6223</td>
<td>Special Topics in Regenerative Medicine</td>
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<tr>
<td>ANAT 6275</td>
<td>Advanced Studies in Translational Sciences</td>
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**Year 2**

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<tr>
<th>Code</th>
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<tr>
<td>ANAT 6182</td>
<td>Fundamentals of Translational Science</td>
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<tr>
<td>ANAT 6219</td>
<td>Biomedical Ethics for Translational Sciences</td>
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<tr>
<td>MICR 6236</td>
<td>Fundamentals in Geonomics and Proteomics I</td>
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<tr>
<td>PHAR 6205</td>
<td>Pharmacology</td>
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<td>PHAR 6206</td>
<td>Advanced Pharmacology</td>
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<tr>
<td>PHAR 6116</td>
<td>Pharmacogenomics and Personalized Medicine</td>
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*As part of the required curriculum, students choose one of the following options in Year 1: ANAT 6223 taken twice; or, ANAT 6275 taken twice; or, ANAT 6223 and ANAT 6275, each taken once. Students must consult the academic advisor before enrolling in either of these two courses.