Proposal to drop the GRE requirement for Mathematics Doctoral and Master’s applications  

Approved by the UK Mathematics Faculty on 13 October 2020  
Submitted by Benjamin Braun, Director of Graduate Studies, benjamin.braun@uky.edu

This is a proposal for the UK Mathematics department to make the following changes to the admissions process for the Doctoral and Master’s programs:

1. Drop the general GRE test as a requirement; applicants will have the option of providing GRE scores as part of their application
2. Include a mandatory statement of purpose from applicants

The proposed changes will be implemented as soon as the department receives approval from the Graduate School. For the 2020-2021 academic year, the UK Mathematics department has received a temporary waiver of the GRE requirement for applicants to graduate programs. Note that in May 2019, a proposal policy similar to this one was approved by the UK Biology Department and the Graduate School.

We have five reasons to drop the GRE requirement for Mathematics applications:
1. Portions of the GRE have been shown to be biased: scores are skewed to the disadvantage of women, students from underrepresented minority groups in STEM (URMs), and students of lower socioeconomic status.
2. Evidence from multiple STEM graduate education studies collectively indicate that the GRE is not a good predictor of graduate student success.
3. In terms of cost and time, the GRE represents a disproportionate burden for less privileged, rural, and disabled students.
4. Many of our competitor programs have already or are in the process of dropping the GRE as a requirement, and so this is currently putting our program at a disadvantage.
5. The COVID-19 pandemic has caused many GRE offerings (especially GRE Subject tests) to be restricted or cancelled. While this is hopefully a short-term situation, it highlights the value of having a streamlined application process with a minimal number of required components.

In Appendix 1, data are provided supporting these points.

If this proposal is adopted, we would retain the ability for applicants who had taken the GRE to provide those scores. Note that GRE scores are still an element of competitions for add-on or fellowship funding at both the College of Arts and Sciences (Royster and Hahn Awards) and the Graduate School (LTJ). We believe these criteria are likely already impeding recruitment of

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1 Thanks to the UK Biology DGS for providing us with a copy of their proposal, on which this is modeled. Language approved by Biology regarding their statement of purpose can be found here: https://bio.as.uky.edu/admissions-0
excellent students to the University of Kentucky and will increasingly be a problem as more competing institutions move away from relying on the GRE. The Mathematics department will continue to nominate applications for these awards and will provide GRE scores if available, but we will make the case for other, more relevant measures of potential when such scores are lacking. We will make it clear on our math graduate program application requirements website\(^2\) that students who want to be considered for these awards should submit their GRE scores. We recognize that some of our high quality admitted students who do not submit GRE scores may miss out because of our change in policy. We hope that does not occur. We nevertheless are convinced the benefits of this change to the quality of our program will be greater over the long run despite this risk.

If this policy is approved, the requirements for an application to a graduate program in the Mathematics department will be:

1. Transcripts from all higher education institutions attended and, in the case of domestic students, to self-report cumulative GPA’s for each institution.
2. Application fee of $65 for domestic applicants or $75 for international applicants.
3. All applicants whose native language is not English will be asked to self-report TOEFL or IELTS scores (official scores must be sent directly to the graduate school).
4. Three letters of recommendation.
5. A curriculum vitae (CV) or resume.
6. A statement of purpose.

The deadlines for applications to math graduate programs are expected to remain the same:

- International applications for admission and support \((15 \text{ January})\)
- Domestic Applications for Fellowships \((15 \text{ January})\)
- Review of application for teaching assistantships begins \((15 \text{ January})\)
- Domestic Application for Teaching Assistantships (Final deadline) \((15 \text{ May})\)
- Admission for fall semester \((20 \text{ July (approximate)})\)

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\(^2\) https://math.as.uky.edu/applying-to-mathematics
Appendix 1: Data supporting reasons to drop the GRE requirement

1. The GRE is biased.
   - Data unequivocally demonstrate that GRE scores are skewed to the disadvantage of women, URMs, and students of lower socioeconomic status (Miller and Stussun Nature 2014; https://www.nature.com/articles/nj7504-303a):

2. The GRE is not a good predictor of graduate student success.
   - A growing body of evidence suggests that beyond a modest correlation between GRE scores and first year coursework, GRE scores do not correlate with graduate student outcomes. Recent research suggests this is true across the full range of GRE scores.
   - References:
     - https://www.biorxiv.org/content/10.1101/373225v1
     - https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0166742
     - https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0169121
     - https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0206570
     - https://www.nature.com/articles/nj7504-303a
     - https://www.sciencemag.org/careers/2019/05/wave-graduate-programs-drop-gre-application-requirement
     - For a summary of evidence on both sides see the following white paper from the University of Michigan PIBS program:
3. The GRE requires significant expenditures of money, time, and effort
   - Cost of exam: $205 (includes submission to 4 schools; $27/school thereafter), plus additional costs for test prep courses and/or retaking the exam.
   - These costs are a disproportionate burden for less privileged, rural, and disabled students:
     • Students from rural areas incur additional travel expenses to testing centers.
     • Students with disabilities can incur additional costs and inconveniences to secure appropriate accommodations.

4. Many math graduate programs have made the GRE optional, and we can increase our applicant pool by having similar application requirements to other programs
   - See the attached email to the AMS listserv, along with a printout of the spreadsheet that it references.

5. Dropping the GRE is likely to increase the size and diversity of our applicant pool
   - Because fewer programs and fellowships require GREs, fewer students are taking them and are unlikely to do so just to apply to our program.
     • Between 2010 and 2015, NSF and NIH stopped requiring GREs for fellowships.
     • A growing number of mathematics programs have dropped the GRE. A crowdsourced list of requirements for math grad programs is attached to this document.
   - In Biology, data reported by programs that have dropped the GRE indicate a pronounced increase in the size and diversity of applicant pool (anecdotally, without a decline in quality):
     • University of Kansas MCB: 31% increase in # of applicants after making GRE optional. 60% of applicants still submitted GRE scores.
     • University of Michigan PIBS: 45% increase in # of applications, with URM pool increasing by the same amount. Only 27% submitted GREs.
     • Johns Hopkins: 45% increase in applicants and URM pool doubled. 36% of URM applicants and 51% of non-URM applicants submitted GREs. Mean GPA and quality (as evaluated by a holistic review) increased for interviewed pool.
     • Georgia State Anthro: number of applicants has almost doubled.
     • Biomedical sciences (DGP) Northwestern: overall applications increased 37%; URM applicants increased by 39%.
     • Berkeley MCB: # of applicants relatively unchanged, but 26% increase in URM applicants and 65% increase in URM admissions. 58% of applicants provided GREs; but only 43% of URM applicants provided GREs.
Hello, Directors of Graduate Study,

As you probably know, some students have reported that the pandemic is making it difficult for them to take the GRE. As a result, their faculty advisors expressed an interest in identifying mathematics graduate programs that do not require the GRE.

It was recently brought to the AMS’s attention that a graduate student at Brown University (Emily Winn Emily_winn@brown.edu) created a crowd-sourced document listing the graduate math programs that will *not* require the GRE (general or subject) for at least the application cycle of Fall 2021. You can find it at: https://docs.google.com/spreadsheets/d/1hmdO7af3-ILvtJQO-szayG6blTvAYBQ1JcYXFZ_6apE/edit?fbclid=IwAR1bTXqFuiXombVdMwyDUuK-NuHYF3pfVJ5QZVCk9f9DNkXJeaP__kY4XQ#gid=0

I would be appreciate hearing your reaction to this document. Specifically:

1. Do you think the document is helpful to potential applicants?
2. Would you be interested in adding the information about your own graduate program to it?
3. Would it be helpful for the AMS to link to this document from its web pages aimed at students who are interested in applying to graduate school in the mathematical sciences (such as [http://www.ams.org/programs/students/findgradprograms/findgradprograms](http://www.ams.org/programs/students/findgradprograms/findgradprograms) or [https://www.ams.org/education/pre-grad](https://www.ams.org/education/pre-grad)).

Thanks for your help!

Chris Stevens
****UPDATE**** The GRE subject tests have been cancelled for September and October. They were already cancelled in April. Graduate programs – please remove the requirement and update ML AARs. Source: [https://www.ets.org/toefl/preparing/](https://www.ets.org/toefl/preparing/)

The following is a list of graduate math programs which do not require the GRE general or subject for their application cycle. Of Fall 2021, lists noted by Emily Winn (email: emily.winn@brown.edu; Twitter: @EmilyWinn19). If you have additions or updates to this list, please comment on the spreadsheet, email me, or contact me on Twitter and I will be updated accordingly. Optional is placed into two categories: Optional, which means that applicants will not be penalized without a GRE score or with a “satisfactory” GRE score, but some may take them to be from a good source, and recommended, which means that applicants without a GRE score will not be considered but the department strongly suggests you submit them anyway, and lack of scores may have an application.

A note on USNWR rankings: US News and World Report rankings of graduate programs are based on overall documents; there are plenty of quality departments that are omitted where you will be supported and funded through your career or PhD, where you receive to apply should indicate how you want to work with, what areas you want to specialize in, and whether the environment is healthy, happy, and supportive. All of USNWR rankings are not necessary.

### University | U.S. News Ranking | Department | Dan. GRE | Math GRE | Math Stat | GRE | Temporary | Source | Program Website | Additional Notes
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
California Institute of Technology | Math: 9; Applied Math: 5 | Mathematics | N | N | N | Fall 2021 Application Cycle | Fall 2021 Application Cycle | Mike Mosher: [mike.mosher@caltech.edu](mailto:mike.mosher@caltech.edu) | Normally General GRE required, subject GRE strongly recommended for mathematics. Visit in source overlooks anything in websites.
Cornell University | 8 | Mathematics | N | N | N | Fall 2021 Application Cycle | Fall 2021 Application Cycle | [https://math.cornell.edu](https://math.cornell.edu) | Normally both required, normally optional for those pursuing Ph.D. and applied math in some department.
Massachusetts Institute of Technology | Math: 2; Applied Math: 5 | Mathematics | N | N | N | Fall 2021 Application Cycle | Fall 2021 Application Cycle | [https://math.mit.edu](https://math.mit.edu) | According to Prof. Borys Winn, the message is that if you’re interested in your score, send them and they’ll note that but also they never seem to comment in review committees.
Montana State University | 144 | Mathematical Sciences | N | N | N | No | [https://www.math.montana.edu](https://www.math.montana.edu) | Normally both required.
New York University | 16 | Mathematics | N | N | N | No | [https://www.cims.nyu.edu](https://www.cims.nyu.edu) | Normally both required.
Rice University | 36 | Mathematics | N | N | N | No | [https://www.math.rice.edu](https://www.math.rice.edu) | Normally both required.
Virginia Tech | 62 | Mathematics | N | N | N | No | [https://www.math.vt.edu](https://www.math.vt.edu) | Website not updated. Website: Subject scores highly recommended, quality of application hard to assess without. (Note from Emily: I got in without a GRE, but every time, especially if you required in math or applied math.)
West Virginia University | 127 | Mathematics | N | N | N | No | [https://www.math.wvu.edu](https://www.math.wvu.edu) | Website not updated. Website: Subject scores highly recommended, quality of application hard to assess without. (Note from Emily: I got in without a GRE, but every time, especially if you required in math or applied math.)
Brown University | 4 | Applied Mathematics | O | O | O | Fall 2021 Application Cycle | Fall 2021 Application Cycle | [https://www.brown.edu](https://www.brown.edu) | Website not updated. Website: Subject scores highly recommended, quality of application hard to assess without. (Note from Emily: I got in without a GRE, but every time, especially if you required in math or applied math.)
Brown University | 14 | Mathematics | O | O | O | No | [https://www.brown.edu](https://www.brown.edu) | Website not updated. Website: Subject scores highly recommended, quality of application hard to assess without. (Note from Emily: I got in without a GRE, but every time, especially if you required in math or applied math.)
Concordia University | Mathematics and Statistics | O | O | O | No | [https://www.concordia.ca](https://www.concordia.ca) | Master’s degree required for admission to PhD program.
Cornell University | 16 | Applied Mathematics | O | O | O | No | [https://www.cims.nyu.edu](https://www.cims.nyu.edu) | Subject GRE scores useful for applicants from non-mathematical background.
Georgetown University | Mathematics and Statistics | O | O | O | No | [https://www.gmu.edu](https://www.gmu.edu) | Normally, general and subject recommended.
Harvard University | Applied Mathematics | O | O | O | No | [https://www.math.harvard.edu](https://www.math.harvard.edu) | Website not updated. Website: Subject scores highly recommended, quality of application hard to assess without. (Note from Emily: I got in without a GRE, but every time, especially if you required in math or applied math.)
Kansas State University | 94 | Mathematics | O | O | O | Fall 2021 Application Cycle | [https://www.math.ksu.edu](https://www.math.ksu.edu) | General GRE is required for Master’s applicants, but not for PhD.
Johns Hopkins University | 22 | Mathematics | O | O | O | No | [https://www.math.jhu.edu](https://www.math.jhu.edu) | Normally, general and subject recommended.
Monash State University | Mathematics | O | O | O | No | [https://www.monash.edu](https://www.monash.edu) | Normally, general and subject recommended.
North Carolina State University | 93 | Mathematics | O | O | O | No | [https://www.math.ncsu.edu](https://www.math.ncsu.edu) | Normally, general and subject recommended.
Ohio University | 106 | Mathematics | O | O | O | No | [https://www.math.ohio-state.edu](https://www.math.ohio-state.edu) | Normally, general and subject recommended.
Oregon State University | 71 | Mathematics | O | O | O | No | [https://www.oregonstate.edu](https://www.oregonstate.edu) | Normally, general and subject recommended.
Purdue University | 26 | Mathematics | O | O | O | No | [https://www.math.purdue.edu](https://www.math.purdue.edu) | GRE Policy will be reviewed Spring 2021.
Prairie University | 7 | Mathematics and Computational Mathematics | O | O | O | No | [https://www.prairie.edu](https://www.prairie.edu) | Normally, general and subject recommended.
Queens University | Mathematics and Statistics | O | O | O | No | [https://www.queensu.ca](https://www.queensu.ca) | Normally, general and subject recommended.
### Update:

**THE GRE SUBJECT TESTS HAVE BEEN CANCELLED FOR SEPTEMBER AND OCTOBER. THEY WERE ALREADY CANCELLED IN APRIL. GRADUATE PROGRAMS – PLEASE REMOVE THE REQUIREMENT AND UPDATE WIS ARAE.**

Source: [https://www.ets.org/was/aرابط](https://www.ets.org/was/aرابط)

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A note on USNWR rankings: US News and World Report rankings of graduate programs are based on overall departments; there are plenty of quality programs that are unranked where you will be supported and funded through your master’s or PhD. Where you choose to apply should not be the only criterion you consider as it, and whether the environment is healthy, conducive to learning, and well staffed of USNWR.

**University** | **USNWR Ranking** | **Department(s)** | **DAN, GRE** | **Math, GRE** | **Overall** | **Source** | **Program Website** | **Additional Notes**
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South Dakota State University | | Mathematics and Statistics | O O | O O | No | [https://www.sdsu.edu](https://www.sdsu.edu) | [http://www.cs.sdsc.edu](http://www.cs.sdsc.edu) | Normally the GRE general is optional but the GRE subject is required.
Stanford University | | Mathematics | O O | O O | No | [https://www.stanford.edu](https://www.stanford.edu) | [https://web.stanford.edu](https://web.stanford.edu) | Normally the GRE general is optional but the GRE subject is required.
Stony Brook University | | Mathematics | O O | O O | No | [https://www.stonybrook.edu](https://www.stonybrook.edu) | [http://math.stonybrook.edu](http://math.stonybrook.edu) | Normally general required, subject not.
Texas State University | | Mathematics | O O | O O | No | [https://www.txstate.edu](https://www.txstate.edu) | [http://www.math.txstate.edu](http://www.math.txstate.edu) | Normally general required, subject not.
Texas Tech University | | Mathematics | O O | O O | No | [https://www.ttu.edu](https://www.ttu.edu) | [http://www.math.ttu.edu](http://www.math.ttu.edu) | Normally general required, subject not.
University of Alberta | | Mathematical and Statistical Sciences | O O | O O | No | [https://www.ualberta.ca](https://www.ualberta.ca) | [http://www.stat.ualberta.ca](http://www.stat.ualberta.ca) | Normally general required, subject not.
University of British Columbia | | Mathematics | O O | O O | No | [https://www.ubc.ca](https://www.ubc.ca) | [http://www.math.ubc.ca](http://www.math.ubc.ca) | Normally general required, subject not.
University of Buffalo - SUNY | | Mathematics | O O | O O | No | [https://www.buffalo.edu](https://www.buffalo.edu) | [http://www.bit.uob.cornell.edu](http://www.bit.uob.cornell.edu) | Normally general required, subject not.
University of California at Berkeley | | Mathematics and Statistics | O O | O O | No | [https://www.berkeley.edu](https://www.berkeley.edu) | [http://www.stat.berkeley.edu](http://www.stat.berkeley.edu) | Normally both are required.
University of California at Santa Barbara | | Mathematics | O O | O O | No | [https://www.ucsb.edu](https://www.ucsb.edu) | [http://www.math.ucsb.edu](http://www.math.ucsb.edu) | Normally both are required.
University of Chicago | | Mathematics | O O | O O | No | [https://www.uchicago.edu](https://www.uchicago.edu) | [http://www.math.uchicago.edu](http://www.math.uchicago.edu) | Normally both are required.
University of Colorado Boulder | | Mathematics | O O | O O | No | [https://www.colorado.edu](https://www.colorado.edu) | [http://www.math.colorado.edu](http://www.math.colorado.edu) | Normally both are required.
University of Delaware | | Mathematical Sciences and Statistics | O O | O O | No | [https://www.udel.edu](https://www.udel.edu) | [http://www.stat.udel.edu](http://www.stat.udel.edu) | Normally both are required.
University of British Columbia | | Mathematics | O O | O O | No | [https://www.ubc.ca](https://www.ubc.ca) | [http://www.math.ubc.ca](http://www.math.ubc.ca) | Normally both are required.
University of Iowa | | Mathematics and Statistics | O O | O O | No | [https://uiowa.edu](https://uiowa.edu) | [http://www.stat.uiowa.edu](http://www.stat.uiowa.edu) | Normally both are required.
University of Michigan | | Mathematics and Statistics | O O | O O | No | [https://www.umich.edu](https://www.umich.edu) | [http://www.stat.lsa.umich.edu](http://www.stat.lsa.umich.edu) | Normally both are required.
University of New Brunswick | | Mathematics and Statistics | O O | O O | No | [https://www.ubc.ca](https://www.ubc.ca) | [http://www.stat.ubc.ca](http://www.stat.ubc.ca) | Normally both are required.
University of New Mexico | | Mathematics and Statistics | O O | O O | No | [https://www.unm.edu](https://www.unm.edu) | [http://www.stat.unm.edu](http://www.stat.unm.edu) | Normally both are required.
University of Notre Dame | | Mathematics and Statistics | O O | O O | No | [https://www.nd.edu](https://www.nd.edu) | [http://www.math.nd.edu](http://www.math.nd.edu) | Normally both are required.
University of North Carolina at Chapel Hill | | Mathematics and Statistics | O O | O O | No | [https://www.unc.edu](https://www.unc.edu) | [http://www.stat.unc.edu](http://www.stat.unc.edu) | Normally both are required.
University of Oregon | | Mathematics and Statistics | O O | O O | No | [https://www.uoregon.edu](https://www.uoregon.edu) | [http://www.stat.oregonstate.edu](http://www.stat.oregonstate.edu) | Normally both are required.
University of Pittsburgh | | Mathematics and Statistics | O O | O O | No | [https://www.pitt.edu](https://www.pitt.edu) | [http://www.stat.pitt.edu](http://www.stat.pitt.edu) | Normally both are required.
University of Pennsylvania | | Mathematics and Statistics | O O | O O | No | [https://www.upenn.edu](https://www.upenn.edu) | [http://www.math.upenn.edu](http://www.math.upenn.edu) | Normally both are required.
University of Southern California | | Mathematics and Statistics | O O | O O | No | [https://www.usc.edu](https://www.usc.edu) | [http://www.stat.usc.edu](http://www.stat.usc.edu) | Normally both are required.
University of Texas at Austin | | Mathematics and Statistics | O O | O O | No | [https://www.utexas.edu](https://www.utexas.edu) | [http://www.stat.utexas.edu](http://www.stat.utexas.edu) | Normally both are required.
University of Toronto | | Mathematics and Statistics | O O | O O | No | [https://www.utoronto.ca](https://www.utoronto.ca) | [http://www.math.utoronto.ca](http://www.math.utoronto.ca) | Normally both are required.
University of Vermont | | Mathematics and Statistics | O O | O O | No | [https://www.uvm.edu](https://www.uvm.edu) | [http://www.math.uvm.edu](http://www.math.uvm.edu) | Normally both are required.

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Last Updated: August 27, 2020

Fall 2021 Application Cycle –
Applicants that are accepted in Fall 2020/Winter 2021 for beginning the program in Fall 2021

AMS Grad School Search Site: [AMSSS](https://www.amsss.org)
# Update

The following is a list of graduate math programs which do not require the GRE. The list is updated regularly. If you have any questions or need additional information, please visit the websites provided.

<table>
<thead>
<tr>
<th>University</th>
<th>US News Rank</th>
<th>Math Subject Test Required</th>
<th>Math GRE Required</th>
<th>General GRE Required</th>
<th>Application Deadline</th>
</tr>
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<tbody>
<tr>
<td>University of Victoria</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
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</tr>
<tr>
<td>University of Waterloo</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
<td><a href="https://www.math.uwaterloo.ca">Source</a></td>
</tr>
<tr>
<td>University of Missouri-Columbia</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
<td><a href="https://www.math.missouri.edu">Source</a></td>
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<td>Wayne State University</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
<td><a href="https://www.math.wayne.edu">Source</a></td>
</tr>
<tr>
<td>Western University</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
<td><a href="https://www.math.uwo.ca">Source</a></td>
</tr>
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<td>-</td>
<td>O</td>
<td>O</td>
<td>No</td>
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</tr>
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<td>-</td>
<td>O</td>
<td>R</td>
<td>O</td>
<td><a href="https://www.gmu.edu">Source</a></td>
</tr>
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<td>Lehigh University</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>O</td>
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<td>Old Dominion University</td>
<td>-</td>
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<td>No</td>
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<td>-</td>
<td>R</td>
<td>O</td>
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</tr>
<tr>
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<td>-</td>
<td>-</td>
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<td>O</td>
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</tr>
<tr>
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<td>-</td>
<td>-</td>
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<td>O</td>
<td><a href="https://www.math.wisc.edu">Source</a></td>
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<tr>
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<td>-</td>
<td>O</td>
<td>R</td>
<td>O</td>
<td><a href="https://www.math.vt.edu">Source</a></td>
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<td>University of Utah</td>
<td>-</td>
<td>O</td>
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<td>No</td>
<td><a href="https://www.math.utah.edu">Source</a></td>
</tr>
<tr>
<td>Stony Brook University</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.sunysb.edu">Source</a></td>
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<tr>
<td>Michigan State University</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://math.msu.edu">Source</a></td>
</tr>
<tr>
<td>Northwestern University</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.northwestern.edu">Source</a></td>
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<tr>
<td>Simon Fraser University</td>
<td>-</td>
<td>O</td>
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<td>R</td>
<td><a href="https://www.math.sfu.ca">Source</a></td>
</tr>
<tr>
<td>University of Connecticut</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.uconn.edu">Source</a></td>
</tr>
<tr>
<td>University of Minnesota</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.umn.edu">Source</a></td>
</tr>
<tr>
<td>University of Oregon</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.uoregon.edu">Source</a></td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.pitt.edu">Source</a></td>
</tr>
<tr>
<td>University of Tennessee Knoxville</td>
<td>-</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td><a href="https://www.math.utk.edu">Source</a></td>
</tr>
</tbody>
</table>

Note: For more information, please visit the respective university websites.

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**Last Updated: August 27, 2020**

Fall 2021 Application Cycle - Applications that are accepted for Fall 2020/Winter 2021 for beginning the program in Fall 2021.

AMS Grad School Search site [here](https://www.ams.org/mathscinet)
A note on USNWR rankings: US News and World Report rankings of graduate programs are based on overall departments; there are plenty of quality programs that are not ranked in these lists and you should be sure to check out the particular school before applying. Where you place in the top 10% of your undergraduate class is less important than what areas you want to work in, what areas you want to spend time in, and whether the environment is healthy. Canadian interns are also hit off USNWR.
**Update** The GRE Subject Tests have been cancelled for September and October. They were already cancelled in April. Graduate programs – please remove the requirement and update me asap.

The following is a list of graduate math programs which do not require the GRE general or subject for the application cycle of Fall 2021. I am not able to email directly about GRE scores. If you have any specific questions, please check the department’s website or contact the department directly. Some programs have specific requirements that must be met. Please check the program’s website for more information.

A note on US News rankings: US News and World Report rankings of graduate programs are based on overall departmental reputation. There are plenty of quality departments that are not ranked in the top tier, and it is important to consider other factors when selecting a program.

<table>
<thead>
<tr>
<th>University</th>
<th>US News Ranking</th>
<th>Department(s)</th>
<th>Math GRC</th>
<th>Math SuG</th>
<th>CME</th>
<th>Temporary?</th>
<th>Source</th>
<th>Program Website</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Colorado Boulder</td>
<td>78</td>
<td>Mathematics</td>
<td>Y</td>
<td>O</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.colorado.edu/math">https://www.colorado.edu/math</a></td>
<td><a href="https://www.colorado.edu/math">https://www.colorado.edu/math</a></td>
<td>No need to take the GRE.</td>
</tr>
<tr>
<td>University of Illinois Chicago</td>
<td>85</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>O</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.illinois.edu/">https://www.math.illinois.edu/</a></td>
<td><a href="https://www.math.illinois.edu/">https://www.math.illinois.edu/</a></td>
<td>General GRE is required. Not specified.</td>
</tr>
<tr>
<td>University of Pennsylvania</td>
<td>88</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>O</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.upenn.edu">https://www.math.upenn.edu</a></td>
<td><a href="https://www.math.upenn.edu">https://www.math.upenn.edu</a></td>
<td>General GRE is required. Not specified.</td>
</tr>
</tbody>
</table>

---

Some notes on GRE requirements:
- GRE may be required, but it's not specified in all cases. Check the department’s website for specific requirements.
- Some programs may require the GRE Subject Test in Mathematics.
- Some programs may have specific requirements that must be met. Check the program’s website for more information.

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Last Updated: August 27, 2020

Fall 2021 Application Cycle - Applications that are received in Fall 2020/Winter 2021 for beginning the program in Fall 2021

AMS Graduate School Search: [AMS](https://ams.org/)
<table>
<thead>
<tr>
<th>University</th>
<th>USNews Ranking</th>
<th>Department(s)</th>
<th>Dan. GRE</th>
<th>Math Test</th>
<th>GRE</th>
<th>Temporary?</th>
<th>Source</th>
<th>Program Website</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Notre Dame</td>
<td>39</td>
<td>Mathematics</td>
<td>Y</td>
<td>O</td>
<td></td>
<td>No</td>
<td><a href="https://math.nd.edu/mathgraduate/">https://math.nd.edu/mathgraduate/</a></td>
<td>Prof Sean Eves (DOS) and Rachael Meneses (Graduate coordinator) &quot;The GRE (quant test) is optional for only this application term. Normally highly recommended, and strongly suggest you provide a reason for not submitting exact score. Applicants without GRE &quot;may be considered for unconditional admission. If further review of their undergraduate transcripts, recommendation letters, correspondence or direct interactions with mathematics faculty, and statement of professional or research interests indicates that they are qualified to enter the Doctoral Program without deficiencies.&quot;</td>
<td></td>
</tr>
<tr>
<td>University of Oklahoma</td>
<td>74</td>
<td>Mathematics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.ou.edu/">https://www.math.ou.edu/</a></td>
<td>Dr. Michael Paskvan, professor and DOS: &quot;We admit plenty of people who have not taken the GRE Subject test.&quot;</td>
<td></td>
</tr>
<tr>
<td>University of Southern Mississippi</td>
<td>86</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="http://math1.msstate.edu/">http://math1.msstate.edu/</a></td>
<td>Ph.D. in computational sciences, masters in mathematics</td>
<td></td>
</tr>
<tr>
<td>University of Southern California</td>
<td>191</td>
<td>Mathematics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www2.cs.usc.edu/">https://www2.cs.usc.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of Texas at Austin</td>
<td>9</td>
<td>Computational Science, Engineering, and Mathematics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.cs.utexas.edu/">https://www.cs.utexas.edu/</a></td>
<td>Applications Without GRE &quot;may be considered for unconditional admission. If further review of their undergraduate transcripts, recommendation letters, correspondence or direct interactions with mathematics faculty, and statement of professional or research interests indicates that they are qualified to enter the Doctoral Program without deficiencies.&quot;</td>
<td></td>
</tr>
<tr>
<td>University of Texas at Dallas</td>
<td>117</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.utdallas.edu/math/">https://www.utdallas.edu/math/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of Texas at El Paso</td>
<td>106</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.utep.edu/">https://www.math.utep.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Virginia Commonwealth University</td>
<td>144</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>O</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.vcu.edu/">https://www.vcu.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Wright State University</td>
<td></td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="http://www.cwru.edu/math/">http://www.cwru.edu/math/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>1</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.jhu.edu/">https://www.math.jhu.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>74</td>
<td>Mathematics and Computer Science</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="http://www.math.jhu.edu/compsci/">http://www.math.jhu.edu/compsci/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Stevens Institute of Technology</td>
<td>107</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="http://www.stevens.edu/">http://www.stevens.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>Temple University</td>
<td>74</td>
<td>Mathematics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.temple.edu/">https://www.math.temple.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of Cincinnati</td>
<td>106</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.uc.edu/">https://www.math.uc.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of North Carolina</td>
<td>62</td>
<td>Mathematics, Statistics, and Computer Science</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.unc.edu/">https://www.math.unc.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of Maryland</td>
<td></td>
<td>Applied Mathematics and Statistics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.umd.edu/math/">https://www.umd.edu/math/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of Nevada at Las Vegas</td>
<td>130</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.unlv.edu/math/index.html">https://www.unlv.edu/math/index.html</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
<tr>
<td>University of North Carolina at Chapel Hill</td>
<td>34</td>
<td>Mathematics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td>No</td>
<td><a href="https://www.math.upenn.edu/">https://www.math.upenn.edu/</a></td>
<td>No GRE requirements for master's programs. Consult the program if interested.</td>
<td></td>
</tr>
</tbody>
</table>
The following is a list of graduate math programs which do not require the GRE (general or subject) for at least the application cycle of Fall 2021. List curated by Emily Yeh (email: emily.yeh@cornell.edu; Twitter: @EmilyYeh18). If you know of additions or updates to this list, please comment on the spreadsheet, email me, or contact me on Twitter and I will be updated accordingly. Optional is placed into two categories: Optional, which means that applicants will not be penalized without a GRE score or with a "substandard" GRE score, but those who submit them may get a boost from a good score, and Recommended, which means that applicants without a GRE score will be considered but the department strongly suggests submitting them anyway, and lack of score may hurt an application.

### Notes on USNWR rankings: US News and World Report rankings of graduate programs are based on overall departments; there are plenty of quality departments that are not ranked where you will be supported and funded through your master's or Ph.D. Where you choose to apply should be driven by what areas you want to expand on and whether the environment is healthy. Canadian schools are also #1 of USNWR.

<table>
<thead>
<tr>
<th>University</th>
<th>USNWR Ranking</th>
<th>Department(s)</th>
<th>Den, GRE</th>
<th>Math subj, GRE</th>
<th>Temporary?</th>
<th>Source</th>
<th>Program Website</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of North Texas</td>
<td>136</td>
<td>Mathematics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td><a href="https://math.utd.edu">https://math.utd.edu</a></td>
<td><a href="https://math.utd.edu">https://math.utd.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Pennsylvania</td>
<td></td>
<td>Applied Mathematics and Computational Sciences</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td><a href="https://www.math.upenn.edu">https://www.math.upenn.edu</a></td>
<td><a href="https://www.math.upenn.edu">https://www.math.upenn.edu</a></td>
<td></td>
</tr>
<tr>
<td>Yale University</td>
<td></td>
<td>Applied Mathematics</td>
<td>Y</td>
<td>R</td>
<td>No</td>
<td><a href="https://depts.yale.edu/math">https://depts.yale.edu/math</a></td>
<td><a href="https://depts.yale.edu/math">https://depts.yale.edu/math</a></td>
<td></td>
</tr>
<tr>
<td>Ohio State University</td>
<td>26</td>
<td>Mathematics</td>
<td>O/Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.ohio-state.edu">Fall 2021 Application Cycle</a></td>
<td><a href="https://math.ohio-state.edu">Fall 2021 Application Cycle</a></td>
<td></td>
</tr>
<tr>
<td>Portland State University</td>
<td></td>
<td>Mathematics and Statistics</td>
<td>O/Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.pdx.edu">https://www.pdx.edu</a></td>
<td><a href="https://www.pdx.edu">https://www.pdx.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Massachusetts at Amherst</td>
<td>35</td>
<td>Mathematics and Statistics</td>
<td>O/Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.umass.edu">https://www.math.umass.edu</a></td>
<td><a href="https://www.math.umass.edu">https://www.math.umass.edu</a></td>
<td></td>
</tr>
<tr>
<td>Boston College</td>
<td></td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://bc.edu">https://bc.edu</a></td>
<td><a href="https://bc.edu">https://bc.edu</a></td>
<td></td>
</tr>
<tr>
<td>Boston University</td>
<td>47</td>
<td>Mathematics and Statistics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.bu.edu">https://www.bu.edu</a></td>
<td><a href="https://www.bu.edu">https://www.bu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Brown University</td>
<td>31</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.brown.edu">https://www.math.brown.edu</a></td>
<td><a href="https://www.math.brown.edu">https://www.math.brown.edu</a></td>
<td></td>
</tr>
<tr>
<td>Carnegie Mellon University</td>
<td>22</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.cmu.edu">https://www.math.cmu.edu</a></td>
<td><a href="https://www.math.cmu.edu">https://www.math.cmu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Colorado State University</td>
<td>74</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.colostate.edu">https://math.colostate.edu</a></td>
<td><a href="https://math.colostate.edu">https://math.colostate.edu</a></td>
<td></td>
</tr>
<tr>
<td>Dartmouth College</td>
<td>53</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.dartmouth.edu">https://math.dartmouth.edu</a></td>
<td><a href="https://math.dartmouth.edu">https://math.dartmouth.edu</a></td>
<td></td>
</tr>
<tr>
<td>Georgia Tech</td>
<td>29</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.gatech.edu">https://math.gatech.edu</a></td>
<td><a href="https://math.gatech.edu">https://math.gatech.edu</a></td>
<td></td>
</tr>
<tr>
<td>Indiana University Bloomington</td>
<td>34</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.indiana.edu">https://math.indiana.edu</a></td>
<td><a href="https://math.indiana.edu">https://math.indiana.edu</a></td>
<td></td>
</tr>
<tr>
<td>New Mexico State University</td>
<td>117</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://nmsu.edu">https://nmsu.edu</a></td>
<td><a href="https://nmsu.edu">https://nmsu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Northeastern University</td>
<td>55</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://necourses.neu.edu">https://necourses.neu.edu</a></td>
<td><a href="https://necourses.neu.edu">https://necourses.neu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Pennsylvania State University</td>
<td>52</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.psu.edu">https://math.psu.edu</a></td>
<td><a href="https://math.psu.edu">https://math.psu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Rutgers University at New Brunswick</td>
<td>22</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.rutgers.edu">https://math.rutgers.edu</a></td>
<td><a href="https://math.rutgers.edu">https://math.rutgers.edu</a></td>
<td></td>
</tr>
<tr>
<td>Texas AM University</td>
<td>39</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.tamu.edu">https://math.tamu.edu</a></td>
<td><a href="https://math.tamu.edu">https://math.tamu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Worcester Polytechnic Institute</td>
<td>101</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.wpi.edu">https://www.wpi.edu</a></td>
<td><a href="https://www.wpi.edu">https://www.wpi.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Arizona</td>
<td>47</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.arizona.edu">https://www.math.arizona.edu</a></td>
<td><a href="https://www.math.arizona.edu">https://www.math.arizona.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of California at Berkeley</td>
<td>39</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.berkeley.edu">https://math.berkeley.edu</a></td>
<td><a href="https://math.berkeley.edu">https://math.berkeley.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of California at Los Angeles</td>
<td>71</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.ucla.edu">https://www.math.ucla.edu</a></td>
<td><a href="https://www.math.ucla.edu">https://www.math.ucla.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Colorado at Boulder</td>
<td>47</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://www.math.colorado.edu">https://www.math.colorado.edu</a></td>
<td><a href="https://www.math.colorado.edu">https://www.math.colorado.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Delaware</td>
<td>74</td>
<td>Mathematical Sciences</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.udel.edu">https://math.udel.edu</a></td>
<td><a href="https://math.udel.edu">https://math.udel.edu</a></td>
<td></td>
</tr>
<tr>
<td>University of Georgia</td>
<td>55</td>
<td>Mathematics</td>
<td>Y</td>
<td>Y</td>
<td>No</td>
<td><a href="https://math.clemson.edu">https://math.clemson.edu</a></td>
<td><a href="https://math.clemson.edu">https://math.clemson.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

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*Last Updated: August 27, 2020*

**Fall 2021 Application Cycle:**
- Applications that are received in Fall 2020/Winter 2021 for beginning the program in Fall 2021.

**AMS Grad School Search site:** [AMS](https://www.ams.org)
### UPDATE

The GRE subject tests have been cancelled for September and October. They were already cancelled in April. Graduate programs - please remove the requirement and update MCAS.

**Contact:**

- Email: info@amcas.org
- Twitter: @AMCASInfo

If you have any questions or need assistance, please contact us.

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**Fall 2021 Application Cycle**

- Applications that are submitted in Fall 2020/Winter 2021 for beginning the program in Fall 2021
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### Note on US News rankings:

- US News and World Report rankings of graduate programs are based on overall departments, so there are plenty of quality programs that are unrated where you will be supported and funded through your master's or PhD. Where you choose to apply should be based on what you want to work with, what areas you want to excel in, and whether the environment is healthy. Check school websites and read about the programs.

### Table: Institutions with Math GRE Requirements

<table>
<thead>
<tr>
<th>University</th>
<th>US News Ranking</th>
<th>Department</th>
<th>Dan. GRE</th>
<th>Math subj. GRE</th>
<th>Temp Tuas.</th>
<th>Source</th>
<th>Program Website</th>
<th>Notes</th>
</tr>
</thead>
</table>
| University of Pennsylvania  | 18              | Mathematics | Y        | Y              | No         |        | [Website](https://www.math.upenn.edu/) | Additional notes: In cases where it is impossible to take the exam in time and where we are still of the position in advance, it may be possible to consider the application without that, but in this case it is especially important for the applicant's mathematical knowledge to be clear from the rest of the application.
| University of Rochester     | 74              | Mathematics | Y        | Y              | No         |        | [Website](https://www.rochester.edu/) | Subject test not required for master’s degree applicants.
| University of Southern California | 44           | Mathematics | Y        | Y              | No         |        | [Website](https://www.sci.usc.edu/) | Additional notes: They own math website doesn’t list admissions requirements but this information is from the general grad school website.
| University of Virginia      | 47              | Mathematics | Y        | Y              | No         |        | [Website](https://www.math.virginia.edu/) | Additional notes: 
| Vanderbilt University       | 44              | Mathematics | Y        | Y              | No         |        | [Website](https://www.vanderbilt.edu/) | Additional notes: 

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### Sources Regarding GRE Elimination:

- Resource on eliminating the GRE and other admissions practices: [https://fairtest.org](https://fairtest.org)
- GRE limitations in predicting success in biomedical graduate school: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC197774](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC197774)
- Is a biomedical graduate school the same as a mathematics graduate school? No. But this study is comprehensive and strong (and still funding for a similar study for mathematics.)
- GRE does not correlate with STEM PhD completion: [https://www.ncbi.nlm.nih.gov/pmc/articles/PMC197774](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC197774)
- Why dropping the GRE is good for the sake of the pandemic: [https://www.stern.nyu.edu/news/2020/03/gre gvsc](https://www.stern.nyu.edu/news/2020/03/gre gvsc)
- GRE is not a good test of whether someone is capable in math.
- Equipment requirements to take the GRE at home during pandemic - it’s a bit too much to ask: [https://www.etd.org/view/etd-116446-157092/handle/19268/35241](https://www.etd.org/view/etd-116446-157092/handle/19268/35241)
- General numbers about GRE exit: [https://www.etd.org/view/etd-116446-157092/handle/19268/35241](https://www.etd.org/view/etd-116446-157092/handle/19268/35241)
- Blog post about differences in training PhD students in UK vs US (including, no GRE or equivalent exam for admission): [https://drwmpa.com/tag/2019/05/07/gre-gradschool-admissions/](https://drwmpa.com/tag/2019/05/07/gre-gradschool-admissions/)
- Other master’s in STEM Programs’ GRE requirements: [https://www.amcas.org/search/advanced?Q=master%27s+STEM+programs+dropout+application+requirements](https://www.amcas.org/search/advanced?Q=master%27s+STEM+programs+dropout+application+requirements)
- The Physics GRE does not help applicants “stand out”, Byung and Caballero: [https://www.etd.org/view/etd-116446-157092/handle/19268/35241](https://www.etd.org/view/etd-116446-157092/handle/19268/35241)