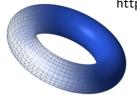
Math Undergraduate Program

Alberto Corso, DUS

https://math.as.uky.edu/undergrad



Department of Mathematics University of Kentucky



Officers of the Department of Mathematics

Dr. Uwe Nagel Chair of the Department, POT 723

russell.brown@uky.edu

Dr. Alberto Corso Director of Undergraduate Studies, POT 701

alberto.corso@uky.edu

Dr. Benjamin Braun Director of Graduate Studies, POT 831

benjamin.braun@uky.edu

Dr. erica Whitaker Director of Service Courses, POT 741

ewhitaker@uky.edu

Dr. Jonathan Clark Mathskeller Director, POT 757

jon.clark@uky.edu

Ms. Rejeana Cassady Academic Administration Associate, POT 731

rejeana.cassady@uky.edu

Math Degrees

Major Degrees

BA Bachelor of Arts

BS Bachelor of Sciences

Each has two options:

• Option A: Mathematics

Option B Mathematical Sciences

- Complete a minimum of 120 credit hours and earn a 2.0 cumulative grade point average (GPA)
- ► Mathematics Departmental Honors Requirement: 3.5 cumulative GPA or above
- ▶ Dean's List Requirement: 3.6 cumulative GPA or above

We also offer a Minor in Math

Degree Requirements for BA and BS

- ▶ UK Core 31 credits
- ► GCCR (Composition and Communication) 3 credits (Starting Fall 2014)
- ► College 25-39 credits (BA); 16-30 credits (BS)
- ► Math Department 53 (option A) or 55 (option B) credits
- ► Electives 0-9 credits (BS)

About the Math Degree Research Experiences Awards

Undergraduate Job Opportunities



Mathematics - B.A.

College of Arts and Sciences

he department offers two programs leading to the R.A. or R.S. degree. Students may ajor in mathematics by completing the requirements for either: Option A, Mathematics Option B, Mathematical Sciences.	Graduation Composition and Communication Requirer (GCCR) MA 201 Mathematics Composition and Communication
he mathematics option consists of courses offered solely by the department of athematics and is intended for those who wish to follow a multional mathematics were such. The mathematical sciences cention consists of courses offered by the	Graduation Composition and Communication Requirement hours (GCCR)
opertureum of computer science, mathematics and entirities, and is introducl for those to opt for a current that requires the application of mathematics. The requirements for our programs are outlined before.	College Requirements 1. Foreign Language (placement exam recommended)
120 hours (minimum)	a. Natural Science
ny student earning a Backelor of Arts (BA) degree most complete a minimum of 39	h. Social Science
ours at the 300+ level. These hours are generally completed by the major requirements.	c. Honorities
owerer, keep this hour requirement in mind as you choose your course work for	III. Laboratory or Field Work IV. Durstone
e requirements in the major. See the complete description of College requirements	
e a Bachdor of Arts degree in the Arts and Sciences section of the 2020-2021 independents Bulletin.	College Requirement hours:
K Core Requirements	OPTION A - Mathematics
so the UK Core section of the 2029-2021 Undergraduate Bulletin for the complete UK	Premajor Requirements
ore requirements. The courses listed below are (a) recommended by the college, or (b)	*MA 113 Calculus I
quired courses that also fulfill UK Core areas. Students should work closely with their	MA II 4 Calculus II
bisor to complete the UK Core requirements.	CS 115 Introduction to Computer Programming
Intellectual Inquiry in Arts and Creativity	
boose one course from approved list	Premajor hours:
Intellectual Inquiry in the Humanities	Major Requirements
hoose one course from approved list	Major Core Requirements
. Intellectual Inquiry in the Social Sciences	MA 217 Calculus III
boose one course from approved list	MA214C-dealer IV
	MAZI4Calulus IV
C. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences	MA 261 Introduction to Number Theory
house one course from annexed list	MA 322 Matrix Algebra and its Applications
Composition and Communication I	Major Core hours:
IS/WRD 110 Composition and Communication I	
I. Composition and Communication II	Other Course Work Required for the Major
IS/WRD 111 Connection and Communication II	From the Major Department:
	Choose 15 hours of 200+ level mathematics courses. One of the following re-
II. Quantitative Foundations IA 117 Calculus I 4	or a substitute approved by the Director of Undergraduate Studies, must be
	MA 351/952, MA 361/962, MA 471G/472G, MA 481G/483G, CS/MA 416G
III. Statistical Inferential Reasoning	STA 417G; at least two of the following must be included (they can also co-
Dt. 296 Statistical Methods and Motivations	sequence if appropriate): MA 351, 352, 361, 362, 471G, 472G. May not inc
L. Community. Culture and Citizenship in the USA	· -
hoose one course from approved list	From Outside the Major Department
Global Dynamics	Choose 14 hours outside Mathematics at the 300+ level. Courses are general
Licensi Dynamics	from physics, chemistry, biology, logic, entistics, computer acience, econor

- CONTINUED -

University of Kennicky is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate, baccularuran, marten, an deceases degrees. Contact the Commission on Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accurace or for exercises above the correlation of Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accurace or for exercises above the correlation of Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the confidence of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Georgia 20033–4097, call 404-459-4500, or online at some accuracy of the Colleges at 1866 Southern Lane, Docume, Colleges at 1866 Southern Lane, Colleges at 1866 Southern Lane, Colleges at 1866 Southern Lane, Colleges at

Other Major hours:

2020 2021 8-4

UK Core hours

Mathematics (B.A.) • 2

OPTION B - Mathematical Sciences
Premajor Requirements
*MA 113 Calculus I
or *MA 137 Calculus I with Life Science Applications
MA 114 Calculus II
MA 138 Calculus II with Life Science Applications 4
CS 115 Introduction to Computer Programming
Premajor hours: 11
Major Requirements
Major Core Requirements
CS 215 Introduction to Program Dosign, Abstraction
and Problem Solving 4
MA213 Calculus III 4
MA 214 Calculus IV
MACS 321 Introduction to Numerical Methods
MA 322 Matrix Algebra and its Applications 3
STA 321 Basic Statistical Theory I
plus a two-somester sugarnee chosen from the following:
MACS 340 Applicable Algebra
and
MACS 415G Combinatorics and Graph Theory
MA-432G Methods of Applied Mathematics I
and MA-433G Introduction to Complex Variables
MA-481G Differential Equations
and MA-69G Introduction to Partial Differential Senations
MACS 416G Introduction to Ostimization
and
MA/STA-417G Decision Making Under Uncertainty 6
Major Core hours: 29
Other Course Work Required for the Major
From the Major Department:
Choose six hours of acceptable MA courses at the 200 level and above (MA 208 may not be used)
From Outside the Major Department
Nine hour supporting program chosen from one area-outside mathematics. The Director
of Undergraduate Studies must approve the supporting program. Courses in the
supporting program must be at the 300 level and above. Cross-listed cosmos may be
used for the supporting program provided they are not used to satisfy another major requirement.
Other Major hours: 15
Total Minimum Hours
Required for Degree 120
*Course used towards completion of a UK Core Requirement.

2020-2021 Series

About the Math Degree Research Experiences Awards **Undergraduate Job Opportunities**



College of Mathematics - B.S. Arts and Sciences The department offers two programs leading to the R.A. or R.S. degree. Students may College Requirements The mathematics serion consists of courses offered soluby by the department of College Requirement hours: 120 hours (minimum) OPTION A - Mathematics Premaior Requirements CS 115 Introduction to Computer Programming. Premaior hours:.... Major Requirements Major Core Requirements I. Intellectual Inquiry in Arts and Creativity Choose one course from approved list II. Intellectual Inquiry in the Humanities II. Intellectual inquiry in the Social Sciences Choose one course from approved list. Other Course Work Required for the Major IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences V. Composition and Communication I VI. Composition and Communication II VII. Quantitative Foundations VIII Statistical Informatial Beaucoing IX. Community, Culture and Citizenship in the USA Graduation Composition and Communication Requirement Graduation Composition and Communication - CONTINUED -Requirement hours (GCCR)...

Mathematics (B.S.) • 2

OPTION B - Mathematical Sciences Premajor Requirements *MA 177 Calculus I with Life Science Applications.... MA 138 Calculus III with Life Science Applications... CS 115 Introduction to Computer Programming..... Major Requirements Required for Degree MASTA 220 Introductory Probability mber a two-sumester suggester chosen from the following: MACS 415G Combinatories and Graph Theory MA-672G Methods of Applied Methomatics I MA-63G Introduction to Complex Variables MA 441G Differential Equations MA 483G Introduction to Partial Differential Equation and MASTA417G Decision Making Under Uncortainty.

Other Course Work Required for the Major

From the Major Department Choose six hours of acceptable MA courses at the 200 level and above (MA 200 may From Outside the Major Department supporting program must be at the 300 level and above. Cross-listed courses may be Other Major hours: Total Minimum Hours

*Course used towards completion of a UK Core Requirement. Mathematics Cooperative Education

Qualified students who major in mathematics may participate in the Mathematical Guidelines and application forms are available in the Engineering Math Sciences Co-op Proman Office, 320 Robotics Bridding.

Major Core hours:

Math Major Requirements: Option A

Premajor Requirements (11 credits):

- MA 113, Calculus I
- ► MA 114. Calculus II
- CS 115, Introduction to Computer Programming

Major Core Requirements (10 credits):

MA 322, Matrix Algebra and its Applications

18 hours of 300+ level Mathematics courses (other than MA 322)

Must include one of the sequences:

Topology: MA 351/352 Algebra: MA 361/362

Advanced Calculus: MA 471G/MA 472G Differential Equations: MA 481G/MA 483G

Optimization: MA 416G/417G

Must include MA 391 (Composition and Communication)

and

at least 2 of the following: MA 351, 352, 361, 362, 471G, 472G

14 hours of 300+ level courses outside of Mathematics

Courses used to satisfy College requirements can also be counted here

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

Math Major Requirements: Option B

Premajor Requirements (11 credits):

- MA 113 or MA 137, Calculus I with Life Science Applications
- ▶ MA 114 or MA 138, Calculus II with Life Science Applications
- CS 115, Introduction to Computer Programming

Major Core Requirements (29 credits):

- ▶ CS 215, Introduction to Program Design, Abstraction and Problem Solving
- MA 213, Calculus III
- MA 214, Calculus IV
- ► MA/STA 320, Introductory Probability
- ► MA/CS 321, Introduction to Numerical Analysis
- ► STA 321, Basic Statistical Theory I STA 525, Intro Stat Inference
- ► MA 322, Matrix Algebra and its Applications

Plus a two-semester sequence chosen from the following:

■ MA/CS 340 and MA/CS 415G

Applicable Algebra and Combinatorics and Graph Theory

■ MA 432G and MA 433G

Methods of Applied Mathematics I and Introduction to Complex Variables

MA 481G and MA 483G

Differential Equations and Introduction to Partial Differential Equations

■ MA/CS 416G I and MA/STA 417G

Introduction to Optimization and Decision Making Under Uncertainty

From the Math Department (6 credits)

Choose six hours of MA courses at the 300+ level (MA 308 may not be used)

[Comment: The GCCR course MA 391 (Composition and Communication) can be one of these!]

From Outside the Major Department (9 credits)

Nine hour from a supporting program chosen from one area outside mathematics. The DUS must approve the supporting program. Courses in the supporting program must be at the 300+ level. Cross-listed courses may be used for the supporting program provided they are not used to satisfy another major requirement.

Electives

General Advice

Students should select their upper-division coursework based on their goals and interests. Below are some suggestions:

Preparation for graduate school:

MA 351, MA 352, MA 361, MA 362, MA 471G, MA 472G

Secondary education:

MA 310, MA 320, MA 330, MA 341, MA 361, MA 362

Mathematics and computer science:

MA 320, MA 321, MA 340, MA 361, MA 362, MA 415G

Mathematics and engineering or physical science:

MA 320, MA 321, MA 361, MA 471G and select from MA 351, MA 362, MA 432G, MA 433G, MA 472G, MA 481G, MA 483G

B.S. Mathematics - Option A ("Pure Math")



either course satisfies the pre-reg. Dashed boxes indicate sequence classes. * Possible pre-req change soon

☐ MA 113 Calc I ☐ MA 114 Calc II ☐ MA 213 Calc III ☐ MA 214 Calc IV or MA 261 Number Theory ☐ Additional 12 hrs of 300± MA murses ☐ 14 hrs outside department (refer to official degree sheet for details) ☐ Additional 12 firs of 300+ MA courses ☐ 14 firs obside department (rener to oriclas de ☐ MA 391 (preregs, one from each: 213 | 214 or 281 | 322 | 321, 351, 361, or 471 | 30+ completed credit hrs).

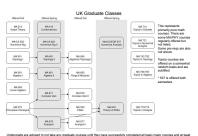
B.S. Mathematics - Option B ("Applied Math")



Bold boxes are required for all option B students. Dashed arrows indicate that either course satisfies the pre-rep. Be aware that a few arrows go behind other classes. Dashed boxes indicate sequence classes. * Possible pre-req changes soon A STA 525 is the standard replacement for STA 321, which is not offered

☐ Additional 6 hrs of 300+ MA courses

□ MA 320 Probability □ MA 321 Numerical Methods □ MA 32.5 Programming □ Upper-level sequence (415/340, 416/417, or 432/433) □ 9 hrs in supporting program (refer to official degree sheet for details) MA 301 (nurses one from early 213 | 214 or 261 | 322 | 321 361 or 471 | 30+ connected credit hrs)



one semester of a sequence. Speaking to the professor is also a must. Grad classes can be beneficial for upperclassmen but are not necessary, even for those intending on math grad school. Only take them if you really want to do it and feel prepared.

Math Minor

21 hours of Math Courses:

- MA 113 or MA 137, Calculus I
 - □ MA 114 or MA 138, Calculus II
 - □ MA 213, Calculus III
 - □ MA 322, Matrix Algebra
- ▶ 6 additional hours of courses numbered 214 or higher.

Possible choices: MA 214, MA 261, MA 320, MA 321, MA 330, MA 341, MA 351, MA 361, or any 400+ level course

To declare a minor, a student must visit the advising center of the college of their primary major.

Major Programs Related to Math

- Mathematical Economics
- Statistics
- Physics
- Engineering
- Computer Science
- Chemistry
- STEM Education

Many math majors are double (or even second degree) majors or have interesting minors.

Talk to your advisor about your interests!

Study Abroad

Various options exist for math majors to study abroad, e.g.

- Budapest Semester in Mathematics
- Budapest Semester in Mathematics Education
- UKY-City University of Hong Kong Program

Talk to your advisor about options, check out

http://www.uky.edu/international/students

University Scholars Program (USP): 4+1

- ▶ The USP offers students the opportunity of integrating their undergraduate and graduate courses of study in a single continuous program culminating in both a baccalaureate and a master's. The total number of hours for the combined program may be as many as 12 less than the total required for the separate degrees.
- ▶ Application to the program should be submitted at the end of the student's junior year. Applicants should have completed at least 90 credit hours of work toward the bachelor's degree, or be eligible for senior standing in the semester they are admitted to the program.
- ► The master's program should be in the field of the undergraduate major, and the undergraduate grade point average must be at least a 3.50 in the applicant's major field and 3.20 overall.
- Students submit the University Scholars Program form, GRE scores and an online application to the Graduate School in their junior year.
- Undergraduate tuition rates will be applied to the 12 hours (or less) of graduate level coursework designated for dual credit.

About the Math Degree Research Experiences Awards Undergraduate Job Opportunities

Integrated 4+1 Year BS/MS in Mathematics Based on BS Option A

Fall	Year	r1	Spring
UK Core CC1	3	UK Core CC2	3
Foreign Language 101	4	Foreign Language 102	4
UK Core QFO (MA 113/MA 193)	5	UK Core QFO (MA 114/MA 194)	5
UK Core HUM	3	CS 115	3
Total Credits	15	Total Credits	15
Fall	Year	Year 2 Spring	
Foreign Language 201	3	Foreign Language 202	3
UK Core NPM (PHY 231)	4	MA 261: Number Theory or MA 214:	3
		Calculus IV	
UK Core NPM (PHY 241_	1	MA 322: Matrix Algebra	3
MA 213: Calculus III	4	A&S NS (PHY 232: General Physics)	4
UK Core SIR (STA 210)	3	A&S Lab (PHY: 242: Physics Lab II)	1
Total Credits	15	Total Credits	14
Fall	Year		Spring
MA 361 Abstract Algebra I	3	MA 362 Abstract Algebra II	3
MA 471G Advanced Calculus I	3	MA 472G Advanced Calculus II	3
CS 215: Introduction to	4	UK Core GDY	3
program design, abstraction, and problem solving			
UK Core ACR	3	MA 391 - GCCR	3
UK Core CCC	3	A&S SS (ECO 201: Principles of	3
		Economics)	1
Total Credits	16	Total Credits	15
Fall	Yea	r4	Spring
MA 565 Linear Algebra I	3	MA 614 Enumerative Combinatorics	3
MA 575 Principles of Analysis	3	MA 676 Real Analysis I	3
UK Core CCC	3	UK Core GDY	3
UK Core SSC	3	Elective	3
Elective	3	Elective	3
Total Credits	15	Total Credits	15
Fall	Year	r5 :	Spring
MA 561 Abstract Algebra I	3	MA 661 Abstract Algebra II	3
MA 514 Combinatorial	3	MA 671 Complex Analysis I	3
Structures			
MA 551 Topology I	3	MA 651 Topology II	3
Total Credits	9	Total Credits	9

Math Club

- ► The UK Math Club is open to all undergraduate students with an interest in mathematics and serves as a focus of activities for our majors and a way to draw students to the major.
- ► The group holds several meetings each semester on topics such as an interesting piece of mathematics, information about summer internship or travel opportunities for mathematics students as well as career information.
- ► A list of recent activities is available from the website http://www.math.uky.edu/~mathclub/ Each event will draw from 20 to 100 students.
- ► The Math Club enables undergraduate students to interact with faculty members and each other in an informal setting.

Math Competitions

- Several students at the University of Kentucky take part in regional and national mathematical competitions.
- ► This activity is challenging as well as satisfying, since it lets you test your intellectual power against problems whose solution needs original thought besides textbook routines.
- ► Typically, we participate in the **Virginia Tech competition** (October) and the **Putnam competition** (December).
- You may also find a collection of problems and other information on Professor Avinash Satahye's website: www.msc.uky.edu/sohum/putnam/index.htm
- If you would like to join, please send an email to Professor Xuancheng (Fernando) Shao:

xuancheng.shao@uky.edu

The Math Lab at UK

- Since Spring 2018 Dr. Chris Manon is running the UK Math Lab (UKML) in order to provide a year-round venue for undergraduates to participate in mathematics research and outreach.
- On a typical semester there are a number of research projects dedicated to an unsolved mathematical problem and running under the direction of faculty members from the department.
- ► The Lab is also running visualization projects aimed at a broader non-mathematical audience.

- ▶ Lab members have a weekly commitment to research and visualization projects in exchange for course credit (MA 398 or MA 399) or, in special circumstances, a stipend.
- ► Each project nominally lasts the length of a summer or a semester, at the end of which project members give a seminar-style research talk on their work.
- This experience is typically a good introduction to research outside UK through summer REUs (as described next).
 UKML is part of a larger consortium called Geometry Labs United.

REU = Research Experience for Undergraduates

- ▶ REUs are summer programs typically lasting 6-9 weeks
- They take place all over the USA
- Specific research topics vary
- ► Typical stipend is \$2,000 to \$4,000, plus extra funds for food, travel, and lodging

Application Information

Ш	Application deadlines range January-Warch
	You will write an essay or two when you apply
	You will usually need three letters of recommendation from
	math or science professors who know you reasonably well

Typical Course Prerequisites for REUs

- MA 113 [MA 137], MA 114 [MA 138], MA 213: Calculus I-III
- ► MA 322: Matrix Algebra
 - [VERY IMPORTANT, take it as early as possible]
- CS 115: Computer Programming
- Experience in upper-division math courses. For example:
 - MA 261 (Number Theory)
 - MA 361 (Modern Algebra)
 - MA 351 (Topology)
 - MA 321 (Numerical Methods)
 - MA 471G (Advanced Calculus)
 - MA 416G (Optimization)

How do I find REUs?

- American Mathematical Society REU page http://www.ams.org/programs/students/undergrad/emp-reu
- MathPrograms.org http://www.mathprograms.org/

Scholarship/Awards Information

- The Sally E. Pence Award was established in 1963 by Dr. James C. Eaves, the Mathematics chair at the time. The award honors Dr. Sallie Pence, a UK faculty member interested in encouraging prospective teachers of mathematics, and provides recognition to Sophomore or Junior mathematics or secondary math education majors who have expressed their intention of becoming a teacher. Applicants for the award must have a overall standing of 3.0 and a standing in mathematics of 3.3. Application is in the Fall of the Sophomore or Junior year and selected applicants are presented the award at the annual Spring awards ceremony held at the Math House. Students may use the award to join the NCTM.
- The Carolyn S. Bunyan Scholarship was established in 1992 in memory of her brother C.G. Soward and in honor of her older brother, William C. Soward, her sister Mary A. Soward, and her two nieces, Ann Soward Vance and Erwinna Soward Wright. Mrs. Bunyan received a degree from the University of Wisconsin in 1925 and wanted to encourage outstanding mathematics majors to continue their studies. Application is in the Fall of the Sophomore or Junior year and the selected applicant is presented the award (≈ \$1,500) at the annual Spring awards ceremony held at the Math House.
- The Robert B. Royster Memorial Award is given to a graduating mathematics senior who is pursuing a career in teaching.
- ► The J.C. Eaves Endowed Scholarship in Mathematics was established in 2004 by J.C. Eaves and Mary G. Eaves in memory of Professor J.C. Eaves, former Mathematics chair and Professor at UK until 1967. The scholarship (≈ \$2,500) is intended for students who are graduates of any high school in the Commonwealth of Kentucky (with preference for qualified students from Muhlenberg, Taylor or Adair counties), who are Junior or Senior level Arts and Science students majoring in Mathematics and have at least a 3.0 GPA. Financial need may be a consideration in awarding this scholarship.
- ► The J.C. Eaves Undergraduate Summer Research Award provides a stipend (≈ \$3,000) for an undergraduate student to conduct research under a faculty supervisor. Summer research awards will be awarded on a competitive basis by the Undergraduate Committee. Students are asked to submit a research proposal and a supporting letter from their faculty mentor.
- The J.C. Eaves Undergraduate Travel Award provides support for (1) students who have the opportunity to travel to a national conference to present the results of their undergraduate research projects ($\approx \$500$) or (2) groups of students interested in attending conferences in Kentucky, such as the sectional meeting of the Math Association of America ($\approx \$100/\200). Travel awards will be granted on a competitive basis by the Undergraduate Committee.

The J.C. Eaves Undergrad. Excellence Fund in Math

The J.C. Eaves Excellence Fund in Mathematics provides the Department with flexible, non-endowed funds to conduct a range of activities to enhance our program for undergraduate mathematics majors:

- Math Club Activities
- ► J.C. Eaves Undergraduate Summer Research Awards
- ▶ J.C. Eaves Undergraduate Travel Awards
- ▶ J.C. Eaves Undergraduate Teaching Assistantships

provide our undergraduate students with a wider range of teaching opportunities in advanced Math courses. This will help to strengthen their understanding of the mathematics studied in these courses. By working closely with a faculty member, undergraduate assistants will strengthen their preparation as teachers which will be valuable for students heading to graduate school or to secondary school teaching. The typical undergraduate assistant will work 5 hours per week throughout a semester ($\approx \$1,000$) and may help with grading, conducting study sessions, or other activities as determined by the supervising instructor.

► J.C. Eaves Speakers Series

UK Office of Nationally Competitive Awards

Math majors often are good candidates for national awards and scholarships such as:

- Astronaut
- Marshall
- NSF Graduate Fellowships

- Goldwater
- Fulbright

This office can also assist with REU applications.

http://www.uky.edu/chellgren/competitive-awards

If interested, contact Pat Whitlow, Director: pat.whitlow@uky.edu

Astronaut Scholarship

2016-17 Corrine Elliott, Math & Chemistry 2015-16 Robert Cass, Math 2014-15 Matthew Fahrbach, CS & Math 2013-14 Josiah Hanna, CS & Math Goldwater Scholarship

Award 2019 Tom Shelton, Physics & Math

2017 Benjamin Riley, Physics & Math 2016 Corrine Elliott, Math & Chemistry

2014 Matthew Fahrbach, CS & Math

2014 Samuel Saarinen, Math

2013 Josiah Hanna, CS & Math

Hon. Mention 2018 Angela Wei, ABT & Math

2015 Robert Cass, Math 2015 Corrine Elliott. Math

2012 Josiah Hanna, CS & Math

NSF Graduate Research Fellowship

Award 2016 Robert Cass, Math

2016 Matthew Fahrbach, CS & Math

2016 Charles Fieseler, Physics & Math

2015 Tamas Nagy, Chemistry & Math

2014 Josiah Hanna, CS & Math

Job Opportunities For Math Majors

- Tutor at Mathskeller
- Undergraduate Assistant for the Math Department
- ▶ Math Excel Classroom Assistant
- ► Tutor at the Study (not Math Department)
- ► For requirements and to apply, go to https://ukjobs.uky.edu/ and search for student jobs in the Math Department.
- ► You can also inquire with Dr. Jonathan Clark, Director of the Mathskeller: jon.clark@uky.edu