Madeline Locus Dawsey
Curriculum Vitae

Department of Mathematics
University of Texas at Tyler
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EDUCATION

Ph.D. in Mathematics, Emory University 2019

Advisor: Dr. Ken Ono
Dissertation: *New Results on Partitions, Prime Numbers, and Moonshine*

B.S. in Mathematics, University of Georgia 2014

A.B. in Italian, University of Georgia 2014

RESEARCH INTERESTS

Analytic and combinatorial number theory including integer partitions, modular forms, and arithmetic and analytic densities

POSITIONS HELD

Assistant Professor, University of Texas at Tyler 2019 – present

PUBLICATIONS

RESEARCH PUBLICATIONS

1. C. Frechette and M. Locus. Combinatorial Properties of Rogers-Ramanujan-Type Identities Arising from Hall-Littlewood Polynomials. *Annals of Combinatorics*, **20**: 2 (2016), 345-360.
2. M. Locus and I. Wagner. Congruences for Powers of the Partition Function. *Annals of Combinatorics*, **21**: 1 (2017), 83-93.
3. E. Alwaise, R. Dicks, J. Friedman, L. Gu, Z. Harner, H. Larson, M. Locus, I. Wagner, and J. Weinstock. Shifted distinct-part partition identities in arithmetic progressions. *Annals of Combinatorics*, **21**: 4 (2017), 479-494.
4. M. Locus. Conjugacy growth series for finitary wreath products. *Research in Number Theory*, **3**: 7 (2017).

   M. Locus. Erratum to: Conjugacy growth series for finitary wreath products. *Research in Number Theory*, **3**: 15 (2017).
5. M. L. Dawsey. A new formula for Chebotarev densities. *Research in Number Theory*, **3**: 27 (2017).

6. M. L. Dawsey and R. Masri. Effective bounds for the Andrews spt-function. *Forum Mathematicum*, Vol. 31, Issue 3 (2019), 743-767.
7. M. L. Dawsey, K. Ono, and I. Wagner. Multiquadratic fields generated by characters of A_n. *Journal of Algebra*, Volume 533 (2019), 339-343.
8. M. L. Dawsey and K. Ono. Higher width moonshine. *Advances in Mathematics*, Volume 360 (2020), doi.org/10.1016/j.aim.2019.106896.
9. M. L. Dawsey, K. Ono, and I. Wagner. Fields generated by characters of finite linear groups. *Archiv der Mathematik* **116** (2021), 487-500.
10. M. L. Dawsey and D. McCarthy. Generalized Paley graphs and their complete subgraphs of orders three and four. *Research in the Mathematical Sciences* **8**: 18 (2021).
11. M. L. Dawsey and B. Sharp. Self-conjugate t-core partitions and applications. *Australasian Journal of Combinatorics* **82(2)** (2022), 212–227.
12. M. L. Dawsey, T. Russell, and D. Urban. Derivatives and Integrals of Polynomials Associated with Integer Partitions. *Journal of Integer Sequences* **25** (2022), Article 22.5.1.
13. M. L. Dawsey, M. Just, and R. Schneider. A "supernormal" partition statistic. *Journal of Number Theory* **241** (2022), 120–141.
14. E. Cochran, M. L. Dawsey, E. Harrell, and S. Saunders. Bijections, generalizations, and other properties of sequentially congruent partitions. *Ramanujan Journal* (2023). https://doi.org/10.1007/s11139-023-00728-y.
15. K. Anders, M. L. Dawsey, B. Reznick, and S. Sisneros-Thiry. Representations of integers as quotients of sums of distinct powers of three. Submitted. https://arxiv.org/abs/2308.07252.
16. K. Anders, M. L. Dawsey, R. Gupta, and J. Vandehey. Non-standard binary representations and the Stern sequence. Submitted. https://arxiv.org/abs/2308.07448.
17. W. Craig, M. L. Dawsey, and G.-N. Han. Inequalities and asymptotics for hook numbers in restricted partitions. Submitted.

CONFERENCE PROCEEDINGS

1. M. L. Dawsey and K. Ono. CM Evaluations of the Goswami-Sun Series. *Proceedings of Elliptic Integrals, Elliptic Functions and Modular Forms in Quantum Field Theory.* Zeuthen, Germany (Ed. J. Blumlein, et. al.), Springer (2019), 183-193.
2. M. L. Dawsey and D. McCarthy. Hypergeometric Functions over Finite Fields and Modular Forms: A Survey and New Conjectures. Conference Proceedings: Baylor Analysis Fest - From Operator Theory to Orthogonal Polynomials, Combinatorics, and Number Theory. *Operator Theory: Advances and Applications*, Birkhauser (2021) 41–56.
3. W. Craig, M. L. Dawsey, and G.-N. Han. Properties of Hook Numbers in Restricted Classes. Proceedings of the 36th Conference on Formal Power Series and Algebraic Combinatorics. *Séminaire Lotharingien de Combinatoire* (2024). 12 pp. Submitted.

OTHER PUBLICATIONS

1. Popular magazine article: M. L. Dawsey and K. Ono. Speed Seeking. *Splash Magazine* (Summer 2019), 38-39.

2. Book chapter: M. L. Dawsey. Review of "Your hit parade: the top ten most fascinating formulas in Ramanujan's lost notebook," by B. C. Berndt and G. E. Andrews. *Encyclopedia of Srinivasa Ramanujan and His Mathematics*. Submitted.
3. Book chapter: M. L. Dawsey. Ramanujan and the Nekrasov–Okounkov Formula. *Encyclopedia of Srinivasa Ramanujan and His Mathematics*. Submitted.
4. AMS Mathematical Review MR4245103: W. King and C. H. Yan, Parking Functions on Directed Graphs and Some Directed Trees, *Electron. J. Comb.* **27**(2) (2020), #P2.48.
5. AMS Mathematical Review MR4263544: K. Bringmann, B. Kane, and J. Males, On t-core and self-conjugate $(2t-1)$-core partitions in arithmetic progressions, *J. Combin. Theory Ser. A* **183** (2021), 105479.
6. AMS Mathematical Review MR4301587: W. Craig and A. Pun, Distribution properties for t-hooks in partitions, *Ann. Comb.* **25** (2021), no. 3, 677–695.
7. AMS Mathematical Review MR4322529: S. Zemel, Moments of partitions and derivatives of higher order, *J. Algebraic Comb.* 54 (2021), 425–439.
8. AMS Mathematical Review MR4356162: S. Corteel, J. Dousse, and A. Uncu, Cylindric partitions and some new A_2 Rogers-Ramanujan identities, *Proc. Amer. Math. Soc.* **150** (2022), no. 2, 481–497.
9. AMS Mathematical Review MR4372227: C. Ray and K. Chakraborty, Certain eta-quotients and ℓ-regular overpartitions, *Ramanujan J.* **57** (2022), no. 2, 453–470.
10. AMS Mathematical Review MR4416681: L. X. W. Wang and E. Y. Y. Yang, Laguerre inequalities for discrete sequences, *Adv. Appl. Math.* **139** (2022), 102357.
11. AMS Mathematical Review MR4382175: D. Stark, The asymptotic number of weighted partitions with a given number of parts, *Ramanujan J.* **57** (2022), 949–967.
12. AMS Mathematical Review MR4541589: F. Gawron and M. Ulas, Sign behaviour of sums of weighted numbers of partitions, *Ramanujan J.* (2023) 60: 571–584.
13. AMS Mathematical Review MR4554014: G. D. Shivanna and S. Chandrappa, Congruences for overpartitions with ℓ-regular over-lined parts, *J. Anal.* (2023) 31: 459–474.
14. AMS Mathematical Review MR4607743: R. Inagaki and R. Tamura, On generalization of a conjecture of Kang and Park, *Res. Number Theory* (2023) 9:51.

RESEARCH IN PREPARATION

1. M. L. Dawsey and R. Gupta. Summation formulas in the theory of Hecke's functional equation. In preparation.
2. K. Anders, M. L. Dawsey, R. Gupta, N. Lebowitz-Lockard, and J. Vandehey. Non-standard quaternary representations and the Fibonacci sequence. In preparation.
3. W. Craig, M. L. Dawsey, and J. Males. Distribution of hook numbers in restricted partition classes. In preparation.
4. K. Anders, M. L. Dawsey, B. Reznick, and S. Sisneros-Thiry. Digraphs for representations of integers as quotients of sums of distinct powers of three. In preparation.

GRANTS

NSF-AWM Travel Grant 2020

Awarded $1,722.18 for travel to the 34th Automorphic Forms Workshop in Moab, Utah.

AMS-Simons Travel Grant 2020 – 2022

Awarded $5,000 to support travel for research in number theory.

UT Tyler New Faculty Research Grant 2020 – 2021

Awarded $7,149 for travel, supplies, and research assistants for research in number theory.

NSF Research Experience for Undergraduates (Senior Personnel) 2022 – 2024

Awarded to host an REU at the University of Texas at Tyler for three summers.

HONORS AND AWARDS

Innovation in Teaching Award ($2000), University of Texas at Tyler 2023 – 2024

Jack and Dorothy Faye White Fellowship for Teaching Excellence ($2500), University of Texas at Tyler 2022 – 2023

UT Tyler Department of Mathematics Faculty Teaching Award 2022 – 2023

Marshall Hall, Jr. Teaching Award, Emory University 2018 – 2019

George W. Woodruff Fellowship, Emory University 2015 – 2019

SEC Boyd McWhorter Scholar-Athlete of the Year, Southeastern Conference 2015

NCAA Postgraduate Scholarship, National Collegiate Athletic Association 2015

AT&T Student Leadership Award, University of Georgia 2014

Joel Eaves Scholar-Athlete Award, University of Georgia Athletic Department 2013

Hollingsworth Award, University of Georgia Math Department 2013

PRESENTATIONS

CONFERENCE PRESENTATIONS

- *Properties of sequentially congruent partitions* (invited future presentation) 2024
  Joint Mathematics Meetings, San Francisco, CA
  Special Session "Partition Theory and q-Series"
- *Binary representations and the Stern sequence* (virtual talk) 2023
  AMS Sectional Meeting, South Alabama
  Special Session "Experimental Mathematics in Number Theory and Combinatorics"
- *A new partition statistic* 2022
  Baylor Analysis Fest (virtual)
- *Student Workshop on Ranks and Cranks* 2022
  NSF-CBMS Regional Research Conference Series, University of Texas Rio Grande Valley
- *Interdisciplinary Mathematics Research* 2022
  East Texas Research Conference (virtual)

- *A new partition statistic* 2022

  Joint Mathematics Meetings (virtual)
  Special Session "Early career number theory research with combinatorics, modular forms, and basic hypergeometric series"

- *A new partition statistic* 2022

  Southern Regional Number Theory Conference, Louisiana State University

- *Modular forms, hypergeometric functions, and Ramsey numbers* 2020

  AMS Sectional Meeting, Pennsylvania State University
  Special Session "q-Series and Related Areas in Combinatorics and Number Theory"

- *Congruences for powers of $p(n)$* 2019

  AMS Sectional Meeting, University of Florida
  Special Session "Partition Theory and Related Topics"

- *Partitions and a conjecture of John Thompson* 2019

  Analytic and Combinatorial Number Theory: The Legacy of Ramanujan, University of Illinois at Urbana-Champaign

- *Moonshine for finite groups* 2019

  Southern Regional Number Theory Conference: Modular Curves, Modular Forms, and Hypergeometric Functions, Louisiana State University

- *Moonshine for finite groups* 2019

  AMS Sectional Meeting, University of Hawaii at Manoa
  Special Session "Recent Advances and Applications of Modular Forms"

- *Inequalities satisfied by the Andrews* spt*-function* 2019

  AMS Sectional Meeting, Auburn University, AL
  Special Session "Experimental Mathematics in Number Theory, Analysis & Combinatorics"

- *Moonshine for finite groups* 2019

  Low dimensional topology and number theory XI, Osaka University, Japan

- *CM Evaluations of the Goswami–Sun Series* 2019

  Joint Mathematics Meetings, Baltimore, MD
  Special Session "Partition Theory and Related Topics"

- *The Andrews Smallest Parts Partition Function* 2019

  Joint Mathematics Meetings, Baltimore, MD
  Invited Paper Session "Modular Forms: Aesthetics and Applications"

- *Higher Width Moonshine* 2018

  New developments in the theory of modular forms over function fields, Centro di Ricerca Matematica, Italy

- *A New Formula for Chebotarev Densities* 2018

  Canadian Number Theory Association XV, Université Laval, Canada

- *Effective Bounds for Andrews' Smallest Parts Function* 2018

  Combinatory Analysis, Pennsylvania State University

- *Effective Bounds for Andrews' Smallest Parts Function* 2018

Automorphic Forms Workshop, Tufts University, MA

- *A New Formula for Chebotarev Densities* 2017
  International Conference on Number Theory, SASTRA University, India
- *A New Formula for Chebotarev Densities* 2017
  Palmetto Number Theory Series, University of Tennessee
- *Rogers–Ramanujan Series Arising from Hall–Littlewood Polynomials* 2015
  Joint Mathematics Meetings Poster Session, San Antonio, TX

COLLOQUIUM AND SEMINAR PRESENTATIONS

- *Binary representations and the Stern sequence* 2023
  Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2023
  NSF Research Experience for Undergraduates talk, Texas A&M University Commerce
- *A new partition statistic* 2022
  Number Theory Seminar, Texas A&M University
- *A new partition statistic and applications* 2022
  Texas Number Theory and Combinatorics Seminar (virtual)
- *Adding & counting in many different ways* 2021
  Math Club, University of Texas at Tyler
- *Maps between partitions and the natural numbers* 2020
  Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2020
  Women in Math and Science Research Seminar, University of Texas at Tyler
- *Modular forms and Ramsey theory* 2020
  Number Theory Seminar, Vanderbilt University
- *Moonshine and its variants* 2020
  Algebra Seminar, University of North Texas
- *Modular forms and Ramsey theory* 2020
  Mathematics Department Seminar, University of Texas at Tyler
- *Molecular Mathematics* 2020
  Math Club, University of Texas at Tyler
- *Two new results in representation theory* 2019
  Algebraic Geometry and Number Theory Seminar, Rice University
- *Densities of subsets of prime numbers* 2019
  Mathematics Colloquium, TCU
- *Partitions and representation theory* 2019
  Mathematics Department Seminar, University of Texas at Tyler

- *A new formula for Chebotarev densities* 2019
  Algebra and Number Theory Seminar, Texas Tech University
- *Adding and Counting: How Hard Can It Be?* 2019
  Math Club, University of Texas at Tyler
- *Moonshine for finite groups* 2019
  Mathematics Department Seminar, University of Texas at Tyler
- *Adding and Counting: How Hard Can It Be?* 2019
  Mathematics Colloquium, St. Edward's University
- *Densities of subsets of prime numbers* 2018
  Number Theory Seminar, Texas A&M University
- *Densities of subsets of prime numbers* 2018
  Mathematics Department Seminar, University of Texas at Tyler
- *Moonshine for finite groups* 2018
  Mathematics Colloquium, Baylor University
- *Moonshine for finite groups* 2018
  Algebra Seminar, University of Tennessee
- *Moonshine for finite groups* 2018
  Algebra Seminar, Emory University
- *Densities of subsets of prime numbers* 2018
  Mathematics Colloquium, Baylor University
- *Conjugacy Growth Series for Wreath Products of Finitary Permutation Groups* 2017
  Combinatorics, Algebra, and Geometry Seminar, University of Pennsylvania
- *Conjugacy Growth Series for Wreath Products of Finitary Permutation Groups* 2017
  Number Theory Seminar, Texas A&M University
- *Combinatorial Properties of Generalized Rogers–Ramanujan Identities* 2015
  Number Theory Seminar, University of Georgia

ADVISING

UNIVERSITY OF TEXAS AT TYLER

Postdoctoral Researchers

–Rajat Gupta 2023 – 2024

Graduate Student Research Assistants

–Dannie Urban, *A study of partitions* 2020 – 2021

Undergraduate Student Research Assistants

–Tyler Russell, *A study of partitions* 2020 – 2021

· Pi Mu Epsilon MathFest presentation: *Polynomials Associated to Integer Partitions*

· MathFest Outstanding Presentation Award

–Benjamin Sharp, *A study of partitions* 2020 – 2021

Research Experiences for Undergraduates

–*Sequentially Congruent Partitions* 2022

· Ezekiel Cochran (LeTourneau University)
· Emma Harrell (Mount Holyoke College)
· Samuel Saunders (University of Texas at Tyler)

Senior Capstone Projects

–Tyler Russell, *The Circle Method* Spring 2022
–Rebecca Odom, *Identifying Self-Conjugate Partitions* Spring 2021

· Pi Mu Epsilon MathFest presentation: *Identifying Self-Conjugate Partitions*
· MathFest Outstanding Presentation Award
· Paper submitted to *Rose-Hulman Undergraduate Mathematics Journal*

–Landri Edwards, *Mathematical Analysis of Soccer* Fall 2020
–Chloe West, *Mathematical Analysis of Swimming* Spring 2020

Honors Contract Projects

–Matthew Castillo, *Malaria Control Using Ordinary Differential Equations* Spring 2023

EMORY UNIVERSITY

Undergraduate Directed Research Projects (joint with Ken Ono)

–Sven Mesihovic, *Analytic Study of High Performance Swimming* Spring 2019

Research Experiences for Undergraduates (graduate student mentor)

–*Analytic Study of High Performance Swimming* 2018, 2019

UNIVERSITY OF VIRGINIA

Undergraduate Directed Research Projects (joint with Ken Ono)

–Jerry Lu, *Analytic Study of High Performance Swimming* 2020 – 2021

PROFESSIONAL DEVELOPMENT

Student Research Professional Learning Community

–Undergraduate and Graduate Research Funding Opportunities 2022
–Tips for Recruiting Student Researchers 2021

Tenure & Promotion: Assistant to Associate Professor 2021

Course Hero Virtual Education Summit 2020

–The Future of Higher Education in the Age of Coronavirus
–Engaging Underprepared Students: Before, During, And After the COVID Era
–Teaching Effective Thinking Through Mathematics
–TailorEd: Student Learning Outcomes
–Synchronous vs. Asynchronous: Lessons From An Educator Teaching Online Since 1994
–Unleashing Faculty Innovation

UT Tyler Faculty Panel on Course Evaluations: Learning from our Students 2020

Student Success Seminar Series, UT Tyler

–From ABC to XYZ: Educating the Instant Generation 2020

UT System Academy of Distinguished Teachers Winter Conference

–Defining and Teaching for Student Success 2020

–Active Learning Using Educational Technologies 2020

–Meeting these Challenges 2020

UT Tyler Center for Excellence in Teaching and Learning

–Teaching and Learning in the Age of AI: How Do We Adapt? 2023

–Advanced Active Learning Strategies for In-Person, Online, and Blended Learning Environments 2023

–Understanding our Undergraduate Students: They're Here 2022

–Post-Pandemic Teaching and Learning 2022

–Active Learning Strategies in STEM Courses 2021

–How Do I Help My Students? 2021

–Panel Discussion: OER and Affordable Textbook Alternatives 2020

–Digital Tools to Empower 21st Century Learners 2020

–Using Storytelling in the Classroom 2020

–Increasing Accessibility for All 2019

–Culture Shock and College Success 2019

–Building Student Resilience 2019

–Designing Service-Learning Courses 2019

MAA Project NExT Workshops 2020

–Math for Non-Math Majors

–Inspired by Real, Fun Math: Practical Outreach for Sharing the Power and Beauty of Mathematics with our Communities

–Fostering an Equitable Classroom

UT Tyler Internal Grants: Facilitating Faculty and Staff Research and Collaboration 2019

Work-Life Balance Faculty Learning Community Workshop/Meeting 2019

UT Tyler Tenure & Promotion Workshop 2019, 2020, 2021, 2022

PROFESSIONAL SERVICE

External reviewer, NSF Research Experience for Undergraduates, Texas A&M Commerce 2023

Co-organizer, JMM Special Session on "Modular Forms and Combinatorics" 2022

Reviewer, AMS Mathematical Reviews 2021 – present

Co-organizer, JMM Special Session on "Partition Theory and q-Series" 2020

Judge, MAA Undergraduate Student Poster Session at the JMM 2020

Session Chair, Analytic and Combinatorial Number Theory: The Legacy of Ramanujan 2019

Referee Work:

–*Transactions of the American Mathematical Society*
–*Proceedings of the American Mathematical Society*
–*Research in the Mathematical Sciences*
–*Ramanujan Journal*
–*Journal of Number Theory*
–*Research in Number Theory*
–*Hardy-Ramanujan Journal*
–*Discrete Mathematics*
–*Discussiones Mathematicae Graph Theory*
–*International Journal of Number Theory*
–*Communications in Algebra*
–*Annals of Combinatorics*
–*Electronic Journal of Combinatorics*
–*Graphs and Combinatorics*
–*Australasian Journal of Combinatorics*
–*Involve*
–*Bulletin of the Brazilian Mathematical Society, New Series*
–*Ball State Undergraduate Mathematics Exchange*
–A paper contributed to a Festschrift for *Operator Theory: Advances and Applications*
–A paper contributed to *FPSAC (Formal Power Series and Algebraic Combinatorics)*

UNIVERSITY SERVICE

University of Texas at Tyler

Institutional Committees and Service

Research Council member (a university-level advisory committee) 2023 – 2024
Conducted a Center for Excellence in Teaching and Learning workshop
"Problem-Based Learning in Precalculus" 2023
College of Arts and Sciences Curriculum Committee member 2023 – 2024
Honors Program Coordinator Search Committee 2021
Leader of seven freshman book discussion mock classes at orientation 2021
Judge for Lyceum Student Research Showcase 2021, 2023
Pi Mu Epsilon Texas Phi Chapter Faculty Advisor 2021 – present
Guest speaker at Honors Forum 2021
Panelist for "What I Wish I'd Known" at new faculty orientation 2020
Leader of four freshman book discussion mock classes at orientation 2020
Founder/faculty advisor, Women in Math and Science at UT Tyler 2019 – present

Founder/faculty advisor, Patriots for the Deaf and Hard of Hearing 2019 – 2021
Service-Learning Faculty Learning Community Member 2019 – 2020
Global Quiz Night Volunteer 2019

Departmental Committees and Service

Mathematics Department Search/Hiring Committee 2023 – 2024
Mathematics Department Postdoctoral Committee 2023 – present
Mathematics Department Webmaster 2023 – present
Redesigned the B.S. Mathematics degree to include career tracks 2022 – 2023
Helped design a 4+1 B.S./Master's degree in Mathematics 2022
Mathematics Department Strategic Plan Committee 2022
Mathematics Department Curriculum Committee 2022 – 2023
Mathematics Department Graduate Committee 2021 – 2022
Mathematics Department Committee on Standardizing Math-CS Double Major Plan 2021
Mathematics Department Open House Co-organizer 2021
Mathematics Department Ph.D. Committee 2020 – present
Mathematics Department Curriculum Committee 2020 – 2021
Mathematics Department Graduate Committee 2019 – 2020
Mathematics Department Education Committee 2019 – 2021
Founder/organizer, UT Tyler Number Theory and Combinatorics Seminar 2020 – 2021

Emory University

Moderator of a teaching panel at the teaching assistant preparatory workshop 2018
Micro-teaching facilitator at the teaching assistant preparatory workshop 2018
Lecturer for the STEM Pathways program 2018
Head coach for the Emory Collegiate Club Swim Team 2016 – 2018

COMMUNITY SERVICE

Co-organizer for UT Tyler STEM Summer Camp 2020, 2021
Guest speaker for STEM Like a Girl, Discovery Science Place 2020, 2021
Guest speaker for No Excuses University Initiative, Van Intermediate School 2019
Volunteer at the American Heart Association Heart Walk in Tyler, TX 2019
Participant at Swim Across America, Atlanta 2016 – 2018
Volunteer for HomeStretch with UGA alumni 2018
Guest speaker at an Atlanta Girls' School swim practice 2016
Assistant instructor at two Emory Math Circle meetings 2016
Guest speaker for Fellowship of Christian Athletes at The Lovett School 2016

COURSES TAUGHT

University of Texas at Tyler

MATH 3425: Foundations of Mathematics
MATH 2415: Multivariate Calculus
MATH 3305: Ordinary Differential Equations
MATH 3203: Matrix Methods in Science and Engineering
HNRS 2414: Honors Calculus II
MATH 2414: Calculus II
HNRS 2413: Honors Calculus I
MATH 2413: Calculus I
MATH 2312: Precalculus
MATH 1342: Statistics I

Emory University

MATH 211: Multivariable Calculus
MATH 116 (teaching assistant): Calculus II for Life Sciences
MATH 112: Calculus II
MATH 111: Calculus I