

UT AUSTIN MATH DEPARTMENT

MATHEMATICS AT THE UNIVERSITY OF TEXAS AT AUSTIN IS A VIBRANT AND DEEPLY RESPECTED FIELD, OFFERING A COMPREHENSIVE ACADEMIC EXPERIENCE FOR STUDENTS AND RESEARCHERS ALIKE. THE UT AUSTIN MATH DEPARTMENT STANDS AS A BEACON OF MATHEMATICAL EXCELLENCE, ATTRACTING TOP TALENT IN BOTH ITS FACULTY AND STUDENT BODY. THIS ESTEEMED DEPARTMENT FOSTERS A RICH ENVIRONMENT FOR LEARNING, DISCOVERY, AND INNOVATION ACROSS A BROAD SPECTRUM OF MATHEMATICAL DISCIPLINES. FROM FOUNDATIONAL UNDERGRADUATE STUDIES TO CUTTING-EDGE DOCTORAL RESEARCH, THE OPPORTUNITIES WITHIN THE UT AUSTIN MATH DEPARTMENT ARE VAST AND IMPACTFUL. WE WILL EXPLORE ITS ACADEMIC PROGRAMS, RENOWNED FACULTY, GROUNDBREAKING RESEARCH INITIATIVES, AND THE OVERALL STUDENT EXPERIENCE THAT MAKES IT A PREMIER DESTINATION FOR ASPIRING MATHEMATICIANS.

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THE UNIVERSITY OF TEXAS AT AUSTIN MATH DEPARTMENT IS A POWERHOUSE OF MATHEMATICAL EDUCATION AND RESEARCH, CONSISTENTLY RANKED AMONG THE NATION'S BEST. IT'S A PLACE WHERE STUDENTS CAN DELVE INTO THE BEAUTY AND COMPLEXITY OF NUMBERS, SHAPES, AND ABSTRACT STRUCTURES. THE DEPARTMENT'S COMMITMENT TO BOTH THEORETICAL AND APPLIED MATHEMATICS ENSURES THAT STUDENTS RECEIVE A WELL-ROUNDED EDUCATION, PREPARING THEM FOR DIVERSE CAREER PATHS IN ACADEMIA, INDUSTRY, AND BEYOND. WITH A STRONG EMPHASIS ON CRITICAL THINKING AND PROBLEM-SOLVING, THE UT AUSTIN MATH DEPARTMENT EQUIPS ITS GRADUATES WITH THE ESSENTIAL SKILLS TO TACKLE THE CHALLENGES OF A RAPIDLY EVOLVING WORLD.

THIS LEADING INSTITUTION OFFERS A COMPREHENSIVE CURRICULUM DESIGNED TO CATER TO A WIDE RANGE OF INTERESTS AND ACADEMIC LEVELS. WHETHER YOU ARE JUST BEGINNING YOUR MATHEMATICAL JOURNEY AS AN UNDERGRADUATE OR SEEKING TO PUSH THE BOUNDARIES OF KNOWLEDGE IN GRADUATE STUDIES, THE DEPARTMENT PROVIDES THE RESOURCES AND EXPERTISE TO HELP YOU SUCCEED. THE RIGOROUS COURSEWORK, COMBINED WITH OPPORTUNITIES FOR RESEARCH AND COLLABORATION, CREATES AN UNPARALLELED LEARNING ENVIRONMENT. IT'S MORE THAN JUST LEARNING FORMULAS; IT'S ABOUT UNDERSTANDING THE UNDERLYING PRINCIPLES AND DEVELOPING THE INTUITION TO APPLY THEM IN INNOVATIVE WAYS.

UNDERGRADUATE PROGRAMS AND OPPORTUNITIES

FOR THOSE EMBARKING ON THEIR HIGHER EDUCATION JOURNEY, THE UT AUSTIN MATH DEPARTMENT OFFERS A ROBUST SELECTION OF UNDERGRADUATE PROGRAMS DESIGNED TO BUILD A STRONG MATHEMATICAL FOUNDATION. THE BACHELOR OF ARTS (BA) AND BACHELOR OF SCIENCE (BS) DEGREES IN MATHEMATICS PROVIDE STUDENTS WITH A COMPREHENSIVE UNDERSTANDING OF CORE MATHEMATICAL CONCEPTS. THESE PROGRAMS ARE CAREFULLY STRUCTURED TO GUIDE STUDENTS FROM INTRODUCTORY CALCULUS AND LINEAR ALGEBRA THROUGH MORE ADVANCED TOPICS LIKE ABSTRACT ALGEBRA, REAL ANALYSIS, AND DIFFERENTIAL EQUATIONS. THE FLEXIBILITY WITHIN THESE DEGREE PLANS ALLOWS STUDENTS TO TAILOR THEIR STUDIES TO THEIR SPECIFIC INTERESTS, WHETHER THAT'S A FOCUS ON PURE MATHEMATICS, APPLIED MATHEMATICS, OR A CONCENTRATION IN AREAS LIKE STATISTICS OR COMPUTATIONAL MATHEMATICS.

BEYOND THE CORE CURRICULUM, THE UNDERGRADUATE EXPERIENCE AT THE UT AUSTIN MATH DEPARTMENT IS ENRICHED BY NUMEROUS OPPORTUNITIES FOR HANDS-ON LEARNING AND RESEARCH. STUDENTS ARE ENCOURAGED TO PARTICIPATE IN

UNDERGRADUATE RESEARCH PROGRAMS, WORKING ALONGSIDE FACULTY ON EXCITING PROJECTS. THESE EXPERIENCES ARE INVALUABLE FOR DEVELOPING RESEARCH SKILLS, GAINING DEEPER INSIGHTS INTO MATHEMATICAL FIELDS, AND BUILDING RELATIONSHIPS WITH LEADING MATHEMATICIANS. THE DEPARTMENT ALSO FACILITATES PARTICIPATION IN PRESTIGIOUS MATH COMPETITIONS AND ENCOURAGES ENGAGEMENT WITH STUDENT ORGANIZATIONS, FOSTERING A SENSE OF COMMUNITY AND SHARED PASSION FOR MATHEMATICS.

KEY UNDERGRADUATE TRACKS AND SPECIALIZATIONS

THE UT AUSTIN MATH DEPARTMENT RECOGNIZES THAT STUDENTS HAVE DIVERSE ASPIRATIONS. TO MEET THESE NEEDS, SEVERAL SPECIALIZED TRACKS ARE AVAILABLE WITHIN THE UNDERGRADUATE PROGRAMS. THESE TRACKS ALLOW STUDENTS TO DIVE DEEPER INTO AREAS THAT PARTICULARLY CAPTURE THEIR INTEREST, PROVIDING A MORE FOCUSED AND INTENSIVE STUDY.

- **PURE MATHEMATICS TRACK:** IDEAL FOR STUDENTS INTERESTED IN ABSTRACT CONCEPTS, THEORETICAL PROOFS, AND THE FUNDAMENTAL UNDERPINNINGS OF MATHEMATICS. THIS TRACK DELVES INTO ADVANCED TOPICS LIKE TOPOLOGY, ABSTRACT ALGEBRA, AND COMPLEX ANALYSIS.
- **APPLIED MATHEMATICS TRACK:** DESIGNED FOR STUDENTS WHO WANT TO SEE MATHEMATICS IN ACTION, THIS TRACK FOCUSES ON MATHEMATICAL MODELING, DIFFERENTIAL EQUATIONS, NUMERICAL ANALYSIS, AND THEIR APPLICATIONS IN SCIENCE, ENGINEERING, AND ECONOMICS.
- **STATISTICS CONCENTRATION:** FOR THOSE FASCINATED BY DATA ANALYSIS, PROBABILITY, AND INFERENCE, THIS CONCENTRATION PROVIDES A STRONG GROUNDING IN STATISTICAL THEORY AND METHODS.
- **MATHEMATICS FOR SCIENTIFIC COMPUTING:** THIS TRACK EMPHASIZES COMPUTATIONAL TECHNIQUES, ALGORITHMS, AND THE USE OF MATHEMATICAL TOOLS IN SOLVING COMPLEX SCIENTIFIC PROBLEMS, OFTEN WITH A FOCUS ON PROGRAMMING AND DATA SCIENCE.

THESE SPECIALIZATIONS ENSURE THAT STUDENTS CAN PURSUE THEIR PASSIONS RIGOROUSLY, GAINING SPECIALIZED KNOWLEDGE THAT WILL SERVE THEM WELL IN THEIR FUTURE ACADEMIC OR PROFESSIONAL ENDEAVORS. THE FACULTY ADVISORS PLAY A CRUCIAL ROLE IN HELPING STUDENTS NAVIGATE THESE CHOICES, ENSURING THEY SELECT THE PATH THAT BEST ALIGNS WITH THEIR GOALS.

GRADUATE STUDIES IN MATHEMATICS AT UT AUSTIN

FOR THOSE SEEKING TO ADVANCE THEIR MATHEMATICAL EDUCATION TO THE HIGHEST LEVELS, THE UT AUSTIN MATH DEPARTMENT OFFERS EXCEPTIONAL GRADUATE PROGRAMS, INCLUDING MASTER OF ARTS (MA), MASTER OF SCIENCE (MS), AND DOCTOR OF PHILOSOPHY (PHD) DEGREES. THESE PROGRAMS ARE DESIGNED TO CULTIVATE INDEPENDENT RESEARCHERS AND SCHOLARS CAPABLE OF CONTRIBUTING TO THE FOREFRONT OF MATHEMATICAL KNOWLEDGE. THE PHD PROGRAM, IN PARTICULAR, IS HIGHLY COMPETITIVE AND RENOWNED FOR ITS RIGOROUS TRAINING IN ADVANCED MATHEMATICAL THEORY AND RESEARCH METHODOLOGIES.

GRADUATE STUDENTS BENEFIT FROM CLOSE MENTORSHIP WITH WORLD-CLASS FACULTY, ACCESS TO STATE-OF-THE-ART RESEARCH FACILITIES, AND A COLLABORATIVE ACADEMIC ENVIRONMENT. THE DEPARTMENT FOSTERS A STRONG RESEARCH CULTURE, WITH GRADUATE STUDENTS ACTIVELY PARTICIPATING IN SEMINARS, CONFERENCES, AND COLLABORATIVE PROJECTS. THIS IMMERSIVE EXPERIENCE PREPARES THEM NOT ONLY FOR ACADEMIC CAREERS BUT ALSO FOR LEADERSHIP ROLES IN RESEARCH AND DEVELOPMENT WITHIN VARIOUS INDUSTRIES. THE BREADTH AND DEPTH OF RESEARCH AREAS AVAILABLE ENSURE THAT GRADUATE STUDENTS CAN FIND A NICHE THAT TRULY IGNITES THEIR INTELLECTUAL CURIOSITY.

DOCTOR OF PHILOSOPHY (PhD) IN MATHEMATICS

THE PhD PROGRAM AT THE UT AUSTIN MATH DEPARTMENT IS A CORNERSTONE OF ITS ACADEMIC OFFERINGS, PREPARING STUDENTS FOR IMPACTFUL CAREERS AS RESEARCHERS, PROFESSORS, AND LEADERS IN MATHEMATICS AND RELATED FIELDS. THE PROGRAM DEMANDS A HIGH LEVEL OF INTELLECTUAL RIGOR AND A DEEP COMMITMENT TO THE PURSUIT OF MATHEMATICAL TRUTH. STUDENTS UNDERTAKE ADVANCED COURSEWORK IN CORE AREAS, FOLLOWED BY COMPREHENSIVE EXAMINATIONS THAT DEMONSTRATE THEIR MASTERY OF THE SUBJECT. THE MOST SIGNIFICANT COMPONENT OF THE PhD IS THE DISSERTATION, AN ORIGINAL RESEARCH PROJECT THAT REPRESENTS A SUBSTANTIAL CONTRIBUTION TO THE FIELD OF MATHEMATICS.

THE DISSERTATION PROCESS INVOLVES IDENTIFYING A RESEARCH PROBLEM, CONDUCTING IN-DEPTH INVESTIGATION, AND PRESENTING THE FINDINGS IN A SCHOLARLY WORK. THIS JOURNEY IS GUIDED BY A FACULTY ADVISOR WHO PROVIDES EXPERTISE AND SUPPORT, HELPING STUDENTS NAVIGATE THE COMPLEXITIES OF ORIGINAL RESEARCH. THE SKILLS HONED DURING THIS PROCESS – CRITICAL THINKING, PROBLEM-SOLVING, ANALYTICAL REASONING, AND EFFECTIVE COMMUNICATION – ARE TRANSFERABLE TO A WIDE ARRAY OF PROFESSIONAL SETTINGS, MAKING UT AUSTIN PhDs HIGHLY SOUGHT AFTER.

MASTER'S PROGRAMS (MA/MS)

THE MA AND MS PROGRAMS WITHIN THE UT AUSTIN MATH DEPARTMENT OFFER VALUABLE OPPORTUNITIES FOR ADVANCED STUDY AND SPECIALIZATION. THESE PROGRAMS CAN SERVE AS EXCELLENT STEPPING STONES FOR STUDENTS CONSIDERING A PhD, PROVIDE SPECIALIZED KNOWLEDGE FOR CAREER ADVANCEMENT, OR OFFER A PATHWAY TO TEACHING AT THE SECONDARY LEVEL. THE CURRICULUM FOR MASTER'S STUDENTS INCLUDES ADVANCED THEORETICAL COURSES AND OFTEN ALLOWS FOR A FOCUS ON A SPECIFIC AREA OF MATHEMATICS. STUDENTS HAVE THE OPTION OF COMPLETING THEIR MASTER'S DEGREE WITH A THESIS, WHICH INVOLVES A SMALLER-SCALE RESEARCH PROJECT, OR THROUGH COURSEWORK ALONE, DEPENDING ON THE PROGRAM'S SPECIFIC REQUIREMENTS.

THESE MASTER'S PROGRAMS ARE IDEAL FOR INDIVIDUALS WHO WANT TO DEEPEN THEIR UNDERSTANDING OF MATHEMATICS WITHOUT COMMITTING TO THE EXTENSIVE RESEARCH REQUIRED FOR A DOCTORATE. THEY PROVIDE A RIGOROUS ACADEMIC EXPERIENCE THAT ENHANCES ANALYTICAL SKILLS AND BROADENS MATHEMATICAL HORIZONS. GRADUATES FROM THESE PROGRAMS ARE WELL-PREPARED FOR ROLES IN QUANTITATIVE ANALYSIS, DATA SCIENCE, FINANCE, AND OTHER FIELDS THAT DEMAND STRONG MATHEMATICAL COMPETENCIES.

RENOWNED FACULTY AND THEIR RESEARCH CONTRIBUTIONS

A DEPARTMENT'S STRENGTH IS OFTEN DEFINED BY THE CALIBER OF ITS FACULTY, AND THE UT AUSTIN MATH DEPARTMENT BOASTS AN IMPRESSIVE ROSTER OF MATHEMATICIANS WHOSE RESEARCH SPANS THE ENTIRETY OF THE DISCIPLINE. THESE PROFESSORS ARE NOT ONLY DEDICATED EDUCATORS BUT ALSO ACTIVE CONTRIBUTORS TO THE GLOBAL MATHEMATICAL COMMUNITY, PUSHING THE BOUNDARIES OF KNOWLEDGE THROUGH THEIR INNOVATIVE RESEARCH AND SCHOLARLY PUBLICATIONS. THEIR EXPERTISE COVERS A VAST ARRAY OF FIELDS, FROM THE ABSTRACT ELEGANCE OF NUMBER THEORY TO THE PRACTICAL POWER OF APPLIED MATHEMATICS AND STATISTICS.

THE FACULTY'S COMMITMENT TO RESEARCH TRANSLATES INTO EXCITING LEARNING OPPORTUNITIES FOR STUDENTS. UNDERGRADUATE AND GRADUATE STUDENTS ALIKE HAVE THE CHANCE TO WORK ALONGSIDE THESE LEADING MINDS, GAINING INVALUABLE MENTORSHIP AND EXPOSURE TO CUTTING-EDGE RESEARCH. THE FACULTY'S PRESENCE FOSTERS A DYNAMIC INTELLECTUAL ENVIRONMENT, CHARACTERIZED BY RIGOROUS DEBATE, COLLABORATIVE EXPLORATION, AND A SHARED PASSION FOR UNRAVELING COMPLEX MATHEMATICAL PROBLEMS. THEIR WORK OFTEN INFLUENCES CURRICULUM DEVELOPMENT, ENSURING THAT STUDENTS ARE EXPOSED TO THE MOST RELEVANT AND IMPACTFUL AREAS OF MODERN MATHEMATICS.

KEY RESEARCH AREAS AND FACULTY EXPERTISE

THE UT AUSTIN MATH DEPARTMENT IS A HUB FOR DIVERSE AND IMPACTFUL RESEARCH. THE FACULTY'S COLLECTIVE EXPERTISE COVERS A BROAD SPECTRUM OF MATHEMATICAL SUBFIELDS, LEADING TO GROUNDBREAKING DISCOVERIES AND ADVANCEMENTS. THIS DIVERSITY ALLOWS FOR INTERDISCIPLINARY COLLABORATION AND PROVIDES STUDENTS WITH EXPOSURE TO A WIDE RANGE OF MATHEMATICAL THOUGHT.

- **ALGEBRAIC GEOMETRY:** FACULTY MEMBERS INVESTIGATE THE PROPERTIES OF ALGEBRAIC VARIETIES USING ALGEBRAIC TECHNIQUES. THIS FIELD HAS DEEP CONNECTIONS TO NUMBER THEORY AND THEORETICAL PHYSICS.
- **ANALYSIS:** RESEARCH IN ANALYSIS INCLUDES FUNCTIONAL ANALYSIS, HARMONIC ANALYSIS, AND PARTIAL DIFFERENTIAL EQUATIONS, FOCUSING ON THE PROPERTIES OF FUNCTIONS AND THE SOLUTIONS TO DIFFERENTIAL EQUATIONS.
- **APPLIED MATHEMATICS:** THIS AREA ENCOMPASSES MATHEMATICAL MODELING, SCIENTIFIC COMPUTING, AND NUMERICAL ANALYSIS, WITH APPLICATIONS IN AREAS LIKE FLUID DYNAMICS, FINANCE, AND BIOLOGY.
- **COMBINATORICS AND GRAPH THEORY:** FACULTY EXPLORE DISCRETE STRUCTURES, COUNTING PROBLEMS, AND THE PROPERTIES OF NETWORKS, WITH APPLICATIONS IN COMPUTER SCIENCE AND OPERATIONS RESEARCH.
- **NUMBER THEORY:** THIS CLASSICAL FIELD INVESTIGATES THE PROPERTIES OF INTEGERS, INCLUDING PRIME NUMBERS AND DIOPHANTINE EQUATIONS, WITH MODERN CONNECTIONS TO CRYPTOGRAPHY.
- **TOPOLOGY:** RESEARCHERS STUDY THE PROPERTIES OF SPACES THAT ARE PRESERVED UNDER CONTINUOUS DEFORMATIONS, A FUNDAMENTAL AREA IN GEOMETRY AND ANALYSIS.
- **PROBABILITY AND STATISTICS:** FACULTY CONDUCT RESEARCH IN AREAS SUCH AS STOCHASTIC PROCESSES, STATISTICAL INFERENCE, AND MACHINE LEARNING, CRUCIAL FOR DATA-DRIVEN DECISION-MAKING.

THE ONGOING RESEARCH BY THESE DISTINGUISHED FACULTY MEMBERS NOT ONLY ADVANCES THE FIELD OF MATHEMATICS BUT ALSO ENRICHES THE EDUCATIONAL EXPERIENCE FOR ALL STUDENTS WITHIN THE UT AUSTIN MATH DEPARTMENT.

CUTTING-EDGE RESEARCH AREAS WITHIN THE UT AUSTIN MATH DEPARTMENT

THE UT AUSTIN MATH DEPARTMENT IS AT THE FOREFRONT OF MATHEMATICAL INNOVATION, ACTIVELY ENGAGED IN A VARIETY OF RESEARCH AREAS THAT ARE SHAPING THE FUTURE OF THE DISCIPLINE. THESE RESEARCH ENDEAVORS ARE NOT CONFINED TO THEORETICAL EXPLORATIONS; MANY HAVE SIGNIFICANT IMPLICATIONS FOR SCIENTIFIC DISCOVERY, TECHNOLOGICAL ADVANCEMENT, AND SOCIETAL PROGRESS. THE DEPARTMENT ENCOURAGES INTERDISCIPLINARY COLLABORATION, FOSTERING AN ENVIRONMENT WHERE MATHEMATICIANS CAN WORK WITH SCIENTISTS, ENGINEERS, AND OTHER EXPERTS TO SOLVE COMPLEX, REAL-WORLD PROBLEMS.

STUDENTS WHO IMMERSE THEMSELVES IN THIS RESEARCH ECOSYSTEM GAIN EXPOSURE TO THE VERY EDGES OF MATHEMATICAL UNDERSTANDING. THEY HAVE THE OPPORTUNITY TO CONTRIBUTE TO ONGOING PROJECTS, LEARN ADVANCED RESEARCH TECHNIQUES, AND DEVELOP A NUANCED APPRECIATION FOR THE CREATIVE AND PROBLEM-SOLVING ASPECTS OF MATHEMATICS. THE DYNAMIC NATURE OF RESEARCH AT UT AUSTIN ENSURES THAT THE CURRICULUM REMAINS RELEVANT AND FORWARD-THINKING, REFLECTING THE LATEST DEVELOPMENTS AND EMERGING TRENDS IN MATHEMATICS.

INTERDISCIPLINARY RESEARCH AND APPLIED MATHEMATICS

A HALLMARK OF THE UT AUSTIN MATH DEPARTMENT'S RESEARCH LANDSCAPE IS ITS STRONG EMPHASIS ON INTERDISCIPLINARY COLLABORATION AND THE APPLICATION OF MATHEMATICAL PRINCIPLES TO SOLVE PRESSING GLOBAL CHALLENGES. THE DEPARTMENT ACTIVELY FOSTERS CONNECTIONS WITH OTHER LEADING DEPARTMENTS AND RESEARCH CENTERS ACROSS THE

UNIVERSITY OF TEXAS AT AUSTIN, CREATING A FERTILE GROUND FOR INNOVATIVE PROBLEM-SOLVING. THIS APPROACH ALLOWS MATHEMATICIANS TO ENGAGE WITH FIELDS SUCH AS PHYSICS, BIOLOGY, COMPUTER SCIENCE, ENGINEERING, ECONOMICS, AND EVEN THE HUMANITIES, DEMONSTRATING THE PERVASIVE INFLUENCE AND UTILITY OF MATHEMATICAL THINKING.

FACULTY AND STUDENTS ARE INVOLVED IN PROJECTS RANGING FROM DEVELOPING SOPHISTICATED MODELS FOR CLIMATE CHANGE PREDICTION AND ANALYZING COMPLEX BIOLOGICAL SYSTEMS TO DESIGNING ADVANCED ALGORITHMS FOR ARTIFICIAL INTELLIGENCE AND TACKLING CRITICAL ISSUES IN FINANCIAL MATHEMATICS. THE PURSUIT OF APPLIED MATHEMATICS AT UT AUSTIN IS NOT MERELY ABOUT THEORETICAL PROBLEM-SOLVING; IT IS ABOUT LEVERAGING THE POWER OF MATHEMATICAL TOOLS TO UNDERSTAND, PREDICT, AND INFLUENCE THE WORLD AROUND US. THIS INTERDISCIPLINARY SPIRIT ENSURES THAT GRADUATES ARE WELL-EQUIPPED TO CONTRIBUTE MEANINGFULLY TO A WIDE ARRAY OF PROFESSIONAL FIELDS.

THEORETICAL MATHEMATICS AND FOUNDATIONAL RESEARCH

WHILE APPLIED MATHEMATICS AND INTERDISCIPLINARY RESEARCH ARE VITAL, THE UT AUSTIN MATH DEPARTMENT ALSO MAINTAINS A ROBUST COMMITMENT TO FOUNDATIONAL AND THEORETICAL MATHEMATICS. THIS DEDICATION TO PURE MATHEMATICAL EXPLORATION IS CRUCIAL FOR LONG-TERM PROGRESS, AS THEORETICAL BREAKTHROUGHS OFTEN PAVE THE WAY FOR FUTURE APPLIED INNOVATIONS THAT ARE CURRENTLY UNFORESEEN. THE DEPARTMENT'S FACULTY ARE ENGAGED IN DEEP INVESTIGATIONS INTO AREAS SUCH AS ABSTRACT ALGEBRA, TOPOLOGY, NUMBER THEORY, AND ADVANCED ANALYSIS, SEEKING TO UNCOVER FUNDAMENTAL TRUTHS AND ESTABLISH NEW MATHEMATICAL FRAMEWORKS.

THIS PURSUIT OF PURE KNOWLEDGE IS NOT ISOLATED; IT INFORMS AND ENRICHES THE ENTIRE MATHEMATICAL COMMUNITY. STUDENTS WHO ENGAGE WITH THEORETICAL MATHEMATICS DEVELOP EXCEPTIONAL ANALYTICAL REASONING, LOGICAL DEDUCTION, AND ABSTRACT THINKING SKILLS. THEY LEARN TO APPRECIATE THE ELEGANCE AND BEAUTY OF MATHEMATICAL STRUCTURES FOR THEIR OWN SAKE, A PERSPECTIVE THAT IS INVALUABLE REGARDLESS OF THEIR FUTURE CAREER PATH. THE DEPARTMENT RECOGNIZES THAT A STRONG FOUNDATION IN THEORETICAL MATHEMATICS IS ESSENTIAL FOR NURTURING THE NEXT GENERATION OF MATHEMATICIANS AND PROBLEM-SOLVERS.

THE VIBRANT STUDENT LIFE AND COMMUNITY WITHIN THE MATH DEPARTMENT

LIFE AS A MATHEMATICS STUDENT AT UT AUSTIN EXTENDS FAR BEYOND LECTURES AND TEXTBOOKS. THE DEPARTMENT CULTIVATES A SUPPORTIVE AND ENGAGING COMMUNITY WHERE STUDENTS CAN CONNECT WITH PEERS, FACULTY, AND ALUMNI, FOSTERING A SHARED PASSION FOR MATHEMATICAL EXPLORATION. THIS VIBRANT ENVIRONMENT IS CRUCIAL FOR ACADEMIC SUCCESS AND PERSONAL GROWTH, PROVIDING A NETWORK OF SUPPORT AND OPPORTUNITIES FOR COLLABORATIVE LEARNING.

FROM ACADEMIC CLUBS TO INFORMAL STUDY GROUPS, STUDENTS ARE ENCOURAGED TO INTERACT AND LEARN FROM ONE ANOTHER. THIS SENSE OF CAMARADERIE IS PARTICULARLY IMPORTANT IN A FIELD THAT CAN SOMETIMES FEEL CHALLENGING, OFFERING A SHARED SPACE FOR OVERCOMING OBSTACLES AND CELEBRATING ACHIEVEMENTS. THE DEPARTMENT UNDERSTANDS THAT A POSITIVE AND INCLUSIVE COMMUNITY IS JUST AS IMPORTANT AS RIGOROUS ACADEMIC TRAINING IN SHAPING WELL-ROUNDED INDIVIDUALS.

STUDENT ORGANIZATIONS AND NETWORKING OPPORTUNITIES

THE UT AUSTIN MATH DEPARTMENT ACTIVELY SUPPORTS A VARIETY OF STUDENT ORGANIZATIONS THAT PLAY A PIVOTAL ROLE IN ENRICHING THE ACADEMIC AND SOCIAL LIVES OF ITS STUDENTS. THESE GROUPS PROVIDE INVALUABLE PLATFORMS FOR STUDENTS TO CONNECT WITH LIKE-MINDED INDIVIDUALS, SHARE THEIR PASSION FOR MATHEMATICS, AND DEVELOP IMPORTANT LEADERSHIP AND NETWORKING SKILLS. MEMBERSHIP IN THESE ORGANIZATIONS OFTEN LEADS TO LIFELONG FRIENDSHIPS AND PROFESSIONAL CONNECTIONS.

- **MATHEMATICS CLUB:** THIS CLUB IS A CENTRAL HUB FOR UNDERGRADUATE MATH MAJORS, ORGANIZING SOCIAL EVENTS,

GUEST LECTURES BY MATHEMATICIANS FROM VARIOUS FIELDS, AND OPPORTUNITIES TO DISCUSS CHALLENGING MATH PROBLEMS IN A RELAXED SETTING.

- **PI MU EPSILON (NATIONAL HONORARY MATHEMATICS SOCIETY):** FOR ACADEMICALLY DISTINGUISHED STUDENTS, THIS HONOR SOCIETY RECOGNIZES OUTSTANDING ACHIEVEMENT IN MATHEMATICS AND PROVIDES OPPORTUNITIES FOR LEADERSHIP AND ENGAGEMENT IN MATHEMATICAL ACTIVITIES.
- **GRADUATE STUDENT ASSOCIATION:** THIS ASSOCIATION SERVES THE SPECIFIC NEEDS OF GRADUATE STUDENTS IN THE DEPARTMENT, OFFERING SUPPORT, ORGANIZING PROFESSIONAL DEVELOPMENT WORKSHOPS, AND ADVOCATING FOR GRADUATE STUDENT INTERESTS.
- **WOMEN IN MATHEMATICS (WIM) GROUP:** THIS GROUP FOSTERS A SUPPORTIVE COMMUNITY FOR WOMEN IN MATHEMATICS, OFFERING MENTORSHIP, NETWORKING OPPORTUNITIES, AND EVENTS AIMED AT ENCOURAGING AND EMPOWERING FEMALE STUDENTS IN THE FIELD.

THESE ORGANIZATIONS, ALONG WITH VARIOUS INFORMAL STUDY GROUPS, ENSURE THAT STUDENTS HAVE AMPLE OPPORTUNITIES TO BUILD A STRONG NETWORK AND FEEL A SENSE OF BELONGING WITHIN THE LARGER UT AUSTIN COMMUNITY.

RESOURCES AND SUPPORT FOR UT AUSTIN MATH STUDENTS

THE UT AUSTIN MATH DEPARTMENT IS DEEPLY COMMITTED TO PROVIDING COMPREHENSIVE RESOURCES AND SUPPORT SYSTEMS TO ENSURE THE SUCCESS OF ALL ITS STUDENTS. RECOGNIZING THAT A CHALLENGING CURRICULUM REQUIRES ROBUST ACADEMIC AND PERSONAL ASSISTANCE, THE DEPARTMENT OFFERS A RANGE OF SERVICES DESIGNED TO HELP STUDENTS THRIVE. FROM ACADEMIC ADVISING TO MENTAL HEALTH RESOURCES, THE SUPPORT NETWORK IS DESIGNED TO ADDRESS THE DIVERSE NEEDS OF THE STUDENT POPULATION.

THE AVAILABILITY OF THESE RESOURCES UNDERSCORES THE DEPARTMENT'S DEDICATION TO FOSTERING A NURTURING AND PRODUCTIVE LEARNING ENVIRONMENT. STUDENTS ARE ENCOURAGED TO UTILIZE THESE SERVICES TO THEIR FULLEST EXTENT, KNOWING THAT THEY HAVE A DEDICATED TEAM READY TO ASSIST THEM IN NAVIGATING THEIR ACADEMIC JOURNEY AND PERSONAL WELL-BEING. THIS HOLISTIC APPROACH TO STUDENT SUPPORT IS A CORNERSTONE OF THE UT AUSTIN MATH DEPARTMENT'S PHILOSOPHY.

ACADEMIC ADVISING AND MENTORSHIP

A CRITICAL COMPONENT OF THE SUPPORT STRUCTURE WITHIN THE UT AUSTIN MATH DEPARTMENT IS ITS DEDICATED ACADEMIC ADVISING AND MENTORSHIP PROGRAM. STUDENTS HAVE ACCESS TO EXPERIENCED ADVISORS WHO PROVIDE GUIDANCE ON COURSE SELECTION, DEGREE REQUIREMENTS, CAREER PLANNING, AND RESEARCH OPPORTUNITIES. THESE ADVISORS ARE NOT JUST ADMINISTRATIVE FIGURES; THEY ARE OFTEN FACULTY MEMBERS OR EXPERIENCED STAFF WHO UNDERSTAND THE NUANCES OF MATHEMATICAL STUDIES AND THE ACADEMIC PATHWAYS AVAILABLE.

FOR UNDERGRADUATE STUDENTS, ADVISORS HELP IN NAVIGATING THE COMPLEXITIES OF CHOOSING A MAJOR, SELECTING APPROPRIATE ELECTIVES, AND PLANNING FOR GRADUATE SCHOOL OR ENTRY INTO THE WORKFORCE. GRADUATE STUDENTS BENEFIT FROM MENTORSHIP BY FACULTY ADVISORS WHO GUIDE THEM THROUGH THEIR RESEARCH, DISSERTATION PROCESS, AND CAREER DEVELOPMENT. THIS PERSONALIZED ATTENTION ENSURES THAT STUDENTS RECEIVE THE TAILORED SUPPORT THEY NEED TO MAKE INFORMED DECISIONS AND MAXIMIZE THEIR POTENTIAL THROUGHOUT THEIR ACADEMIC CAREERS AT UT AUSTIN.

TUTORING AND LEARNING CENTERS

TO FURTHER BOLSTER ACADEMIC SUCCESS, THE UT AUSTIN MATH DEPARTMENT, IN CONJUNCTION WITH UNIVERSITY-WIDE

RESOURCES, OFFERS EXTENSIVE TUTORING AND LEARNING SUPPORT SERVICES. THESE CENTERS ARE STAFFED BY KNOWLEDGEABLE TUTORS WHO CAN HELP STUDENTS GRASP CHALLENGING CONCEPTS, WORK THROUGH PROBLEM SETS, AND IMPROVE THEIR UNDERSTANDING OF MATHEMATICAL PRINCIPLES. WHETHER A STUDENT IS STRUGGLING WITH INTRODUCTORY CALCULUS OR ADVANCED DIFFERENTIAL EQUATIONS, ASSISTANCE IS READILY AVAILABLE.

- **UNDERGRADUATE TUTORING CENTER:** PROVIDES DROP-IN AND SCHEDULED TUTORING SESSIONS FOR A WIDE RANGE OF UNDERGRADUATE MATHEMATICS COURSES.
- **GRADUATE TEACHING ASSISTANTS (TAs):** GRADUATE STUDENTS OFTEN HOLD OFFICE HOURS WHERE THEY CAN PROVIDE PERSONALIZED HELP TO UNDERGRADUATE STUDENTS IN THEIR COURSES.
- **UNIVERSITY TUTORING SERVICES:** BEYOND DEPARTMENTAL OFFERINGS, THE UNIVERSITY PROVIDES BROADER ACADEMIC SUPPORT SERVICES ACCESSIBLE TO ALL STUDENTS.

THESE RESOURCES ARE VITAL FOR CREATING AN INCLUSIVE LEARNING ENVIRONMENT WHERE EVERY STUDENT HAS THE OPPORTUNITY TO SUCCEED, REGARDLESS OF THEIR STARTING POINT. THE DEPARTMENT BELIEVES THAT ACCESSIBLE SUPPORT IS KEY TO BUILDING CONFIDENCE AND FOSTERING A DEEPER ENGAGEMENT WITH MATHEMATICS.

THE FUTURE OF MATHEMATICS AT UT AUSTIN

LOOKING AHEAD, THE UT AUSTIN MATH DEPARTMENT IS POISED FOR CONTINUED GROWTH AND INNOVATION, CEMENTING ITS POSITION AS A GLOBAL LEADER IN MATHEMATICAL EDUCATION AND RESEARCH. THE DEPARTMENT IS COMMITTED TO ADAPTING TO THE EVOLVING LANDSCAPE OF MATHEMATICS, EMBRACING NEW TECHNOLOGIES, AND EXPLORING EMERGING FIELDS THAT WILL DEFINE THE DISCIPLINE IN THE YEARS TO COME. INVESTMENTS IN FACULTY, RESEARCH INFRASTRUCTURE, AND STUDENT INITIATIVES ARE ALL PART OF A STRATEGIC VISION FOR THE FUTURE.

THE DEPARTMENT ENVISIONS A FUTURE WHERE MATHEMATICS CONTINUES TO BE A DRIVING FORCE BEHIND SCIENTIFIC DISCOVERY, TECHNOLOGICAL ADVANCEMENT, AND INNOVATIVE SOLUTIONS TO SOCIETAL CHALLENGES. BY FOSTERING A CULTURE OF CURIOSITY, COLLABORATION, AND INTELLECTUAL RIGOR, UT AUSTIN AIMS TO INSPIRE THE NEXT GENERATION OF MATHEMATICIANS WHO WILL SHAPE THE FUTURE OF OUR WORLD. THE ONGOING PURSUIT OF KNOWLEDGE AND THE DEDICATION TO EXCELLENT PEDAGOGY ENSURE THAT THE UT AUSTIN MATH DEPARTMENT WILL REMAIN AT THE VANGUARD OF MATHEMATICAL EXPLORATION.

EMERGING RESEARCH FRONTIERS AND TECHNOLOGICAL INTEGRATION

THE FUTURE OF MATHEMATICS AT UT AUSTIN IS INTRINSICALLY LINKED TO EXPLORING NEW FRONTIERS AND EFFECTIVELY INTEGRATING EMERGING TECHNOLOGIES INTO ITS RESEARCH AND EDUCATIONAL PRACTICES. THE DEPARTMENT IS ACTIVELY INVESTING IN AND PROMOTING RESEARCH IN AREAS SUCH AS DATA SCIENCE, ARTIFICIAL INTELLIGENCE, COMPUTATIONAL MATHEMATICS, AND THE MATHEMATICAL ASPECTS OF QUANTUM COMPUTING. THESE FIELDS REPRESENT THE NEXT WAVE OF SIGNIFICANT MATHEMATICAL INQUIRY AND HAVE THE POTENTIAL TO REVOLUTIONIZE VARIOUS INDUSTRIES AND SCIENTIFIC DISCIPLINES.

TECHNOLOGICAL INTEGRATION IS NOT JUST ABOUT USING NEW TOOLS; IT'S ABOUT FUNDAMENTALLY RETHINKING HOW MATHEMATICAL PROBLEMS ARE APPROACHED AND SOLVED. THE DEPARTMENT IS COMMITTED TO EQUIPPING ITS STUDENTS AND FACULTY WITH THE SKILLS AND RESOURCES NECESSARY TO HARNESS THE POWER OF ADVANCED COMPUTING, LARGE-SCALE DATA ANALYSIS, AND SOPHISTICATED SIMULATION TECHNIQUES. THIS FORWARD-LOOKING APPROACH ENSURES THAT UT AUSTIN REMAINS AT THE CUTTING EDGE, PRODUCING GRADUATES WHO ARE NOT ONLY THEORETICALLY SOUND BUT ALSO TECHNOLOGICALLY ADEPT AND PREPARED FOR THE CHALLENGES OF THE 21ST CENTURY.

COMMITMENT TO EXCELLENCE AND SOCIETAL IMPACT

THE ENDURING COMMITMENT TO EXCELLENCE IN BOTH TEACHING AND RESEARCH REMAINS THE BEDROCK OF THE UT AUSTIN MATH DEPARTMENT'S FUTURE. THIS COMMITMENT EXTENDS BEYOND ACADEMIC ACHIEVEMENT TO ENCOMPASS A PROFOUND DEDICATION TO SOCIETAL IMPACT. THE DEPARTMENT STRIVES TO PRODUCE GRADUATES WHO ARE NOT ONLY PROFICIENT IN MATHEMATICS BUT ALSO POSSESS A STRONG SENSE OF ETHICAL RESPONSIBILITY AND A DESIRE TO CONTRIBUTE POSITIVELY TO SOCIETY.

THROUGH ITS RESEARCH, THE DEPARTMENT AIMS TO ADDRESS SOME OF THE WORLD'S MOST PRESSING ISSUES, FROM CLIMATE CHANGE AND PUBLIC HEALTH TO ECONOMIC STABILITY AND NATIONAL SECURITY. BY FOSTERING A COLLABORATIVE AND INCLUSIVE ENVIRONMENT, UT AUSTIN IS NURTURING A DIVERSE COMMUNITY OF MATHEMATICIANS WHO CAN BRING UNIQUE PERSPECTIVES TO COMPLEX PROBLEMS. THE VISION IS TO ENSURE THAT THE MATHEMATICAL ADVANCEMENTS ORIGINATING FROM UT AUSTIN NOT ONLY PUSH THE BOUNDARIES OF KNOWLEDGE BUT ALSO TRANSLATE INTO TANGIBLE BENEFITS FOR HUMANITY, MAKING MATHEMATICS A POWERFUL FORCE FOR GOOD IN THE WORLD.

FAQ: UT AUSTIN MATH DEPARTMENT

Q: WHAT ARE THE PRIMARY UNDERGRADUATE DEGREE OPTIONS IN MATHEMATICS AT UT AUSTIN?

A: THE UT AUSTIN MATH DEPARTMENT OFFERS TWO MAIN UNDERGRADUATE DEGREES: THE BACHELOR OF ARTS (BA) IN MATHEMATICS AND THE BACHELOR OF SCIENCE (BS) IN MATHEMATICS. BOTH PROGRAMS PROVIDE A STRONG FOUNDATION IN MATHEMATICAL PRINCIPLES, BUT THE BS TYPICALLY INCLUDES MORE ADVANCED COURSEWORK AND MAY HAVE SPECIFIC REQUIREMENTS FOR UPPER-DIVISION MATH COURSES, OFTEN PREPARING STUDENTS FOR MORE TECHNICAL OR RESEARCH-ORIENTED PATHS, WHILE THE BA OFFERS MORE FLEXIBILITY FOR DOUBLE MAJORS OR STUDENTS PURSUING OTHER ACADEMIC INTERESTS ALONGSIDE MATHEMATICS.

Q: CAN I PURSUE SPECIALIZED AREAS OF MATHEMATICS WITHIN THE UNDERGRADUATE PROGRAM?

A: ABSOLUTELY. THE UT AUSTIN MATH DEPARTMENT ALLOWS UNDERGRADUATES TO TAILOR THEIR STUDIES THROUGH VARIOUS TRACKS AND CONCENTRATIONS. POPULAR OPTIONS INCLUDE FOCUSING ON PURE MATHEMATICS, APPLIED MATHEMATICS, STATISTICS, OR MATHEMATICS FOR SCIENTIFIC COMPUTING. THESE SPECIALIZATIONS ALLOW STUDENTS TO DELVE DEEPER INTO AREAS THAT ALIGN WITH THEIR CAREER ASPIRATIONS AND ACADEMIC INTERESTS.

Q: WHAT ARE THE ADMISSION REQUIREMENTS FOR THE GRADUATE PROGRAMS IN MATHEMATICS AT UT AUSTIN?

A: ADMISSION TO THE GRADUATE PROGRAMS AT THE UT AUSTIN MATH DEPARTMENT IS HIGHLY COMPETITIVE. PROSPECTIVE STUDENTS TYPICALLY NEED A STRONG UNDERGRADUATE RECORD IN MATHEMATICS, HIGH SCORES ON THE GRE (GENERAL TEST AND SUBJECT TEST IN MATHEMATICS, IF REQUIRED), COMPELLING LETTERS OF RECOMMENDATION FROM FACULTY WHO CAN ATTEST TO THEIR RESEARCH POTENTIAL, AND A WELL-WRITTEN STATEMENT OF PURPOSE OUTLINING THEIR ACADEMIC AND RESEARCH GOALS. SPECIFIC REQUIREMENTS CAN VARY SLIGHTLY BETWEEN MA/MS AND PhD PROGRAMS, SO IT'S ESSENTIAL TO CHECK THE DEPARTMENT'S OFFICIAL GRADUATE ADMISSIONS PAGE FOR THE MOST CURRENT INFORMATION.

Q: HOW DOES THE UT AUSTIN MATH DEPARTMENT SUPPORT ITS GRADUATE

STUDENTS' RESEARCH ENDEAVORS?

A: THE DEPARTMENT PROVIDES EXTENSIVE SUPPORT FOR GRADUATE RESEARCH. STUDENTS ARE ASSIGNED FACULTY ADVISORS WHO GUIDE THEIR RESEARCH AND DISSERTATION WORK. THE DEPARTMENT ALSO OFFERS RESEARCH ASSISTANTSHIPS AND FELLOWSHIPS, ACCESS TO COMPUTATIONAL RESOURCES, OPPORTUNITIES TO PRESENT RESEARCH AT CONFERENCES, AND ENCOURAGES PARTICIPATION IN RESEARCH SEMINARS. THE COLLABORATIVE ENVIRONMENT AMONG FACULTY AND STUDENTS FOSTERS INTELLECTUAL EXCHANGE AND AIDS IN THE PROGRESSION OF RESEARCH PROJECTS.

Q: WHAT CAREER PATHS DO GRADUATES FROM THE UT AUSTIN MATH DEPARTMENT TYPICALLY PURSUE?

A: GRADUATES FROM THE UT AUSTIN MATH DEPARTMENT ARE HIGHLY SOUGHT AFTER IN A WIDE RANGE OF FIELDS. MANY PURSUE ACADEMIC CAREERS AS PROFESSORS AND RESEARCHERS. OTHERS FIND SUCCESSFUL ROLES IN AREAS SUCH AS DATA SCIENCE, FINANCE, ACTUARIAL SCIENCE, OPERATIONS RESEARCH, SOFTWARE DEVELOPMENT, CRYPTOGRAPHY, QUANTITATIVE ANALYSIS, AND VARIOUS SCIENTIFIC AND ENGINEERING INDUSTRIES. THE STRONG ANALYTICAL AND PROBLEM-SOLVING SKILLS DEVELOPED ARE TRANSFERABLE AND VALUABLE ACROSS NUMEROUS SECTORS.

Q: ARE THERE OPPORTUNITIES FOR UNDERGRADUATE RESEARCH WITHIN THE MATH DEPARTMENT?

A: YES, THE UT AUSTIN MATH DEPARTMENT STRONGLY ENCOURAGES UNDERGRADUATE RESEARCH. STUDENTS CAN GET INVOLVED THROUGH VARIOUS AVENUES, INCLUDING DIRECTED RESEARCH COURSES, INDEPENDENT STUDY WITH FACULTY, AND FORMAL UNDERGRADUATE RESEARCH PROGRAMS. THESE OPPORTUNITIES ALLOW STUDENTS TO GAIN HANDS-ON EXPERIENCE, WORK CLOSELY WITH FACULTY MENTORS, AND CONTRIBUTE TO ORIGINAL MATHEMATICAL RESEARCH, WHICH CAN BE INVALUABLE FOR GRADUATE SCHOOL APPLICATIONS OR CAREER DEVELOPMENT.

Q: WHAT IS THE ROLE OF FACULTY MENTORSHIP IN THE UT AUSTIN MATH DEPARTMENT?

A: FACULTY MENTORSHIP IS A CORNERSTONE OF THE ACADEMIC EXPERIENCE AT THE UT AUSTIN MATH DEPARTMENT. FOR UNDERGRADUATES, FACULTY SERVE AS ACADEMIC ADVISORS AND RESEARCH MENTORS, GUIDING THEM THROUGH THEIR STUDIES AND POTENTIAL RESEARCH PROJECTS. FOR GRADUATE STUDENTS, THE FACULTY ADVISOR RELATIONSHIP IS CENTRAL TO THEIR DOCTORAL JOURNEY, PROVIDING GUIDANCE ON RESEARCH, ACADEMIC PROGRESS, AND CAREER DEVELOPMENT. THIS CLOSE INTERACTION ENSURES STUDENTS RECEIVE PERSONALIZED SUPPORT AND EXPERT GUIDANCE.

Q: HOW DOES THE DEPARTMENT FOSTER A SENSE OF COMMUNITY AMONG ITS STUDENTS?

A: THE UT AUSTIN MATH DEPARTMENT ACTIVELY FOSTERS COMMUNITY THROUGH VARIOUS STUDENT ORGANIZATIONS, SUCH AS THE MATHEMATICS CLUB AND PI MU EPSILON HONOR SOCIETY. THESE GROUPS ORGANIZE SOCIAL EVENTS, ACADEMIC DISCUSSIONS, AND NETWORKING OPPORTUNITIES. THE DEPARTMENT ALSO ENCOURAGES INFORMAL STUDY GROUPS AND PROVIDES SPACES FOR STUDENTS TO CONNECT. FOR GRADUATE STUDENTS, THE GRADUATE STUDENT ASSOCIATION PLAYS A KEY ROLE IN BUILDING A SUPPORTIVE ENVIRONMENT.

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