

UB PHYSICS DEPARTMENT

UNVEILING THE EXCELLENCE OF THE UB PHYSICS DEPARTMENT

UB PHYSICS DEPARTMENT IS A CORNERSTONE OF GROUNDBREAKING RESEARCH AND EXCEPTIONAL EDUCATION, FOSTERING A VIBRANT COMMUNITY OF SCHOLARS DEDICATED TO UNRAVELING THE UNIVERSE'S FUNDAMENTAL MYSTERIES. THIS COMPREHENSIVE EXPLORATION DELVES INTO THE MULTIFACETED OFFERINGS OF THE DEPARTMENT, FROM ITS ESTEEMED FACULTY AND CUTTING-EDGE RESEARCH AREAS TO ITS ROBUST UNDERGRADUATE AND GRADUATE PROGRAMS. WE WILL EXAMINE THE DISTINCTIVE ACADEMIC PATHWAYS AVAILABLE, THE UNPARALLELED RESEARCH OPPORTUNITIES, AND THE VIBRANT STUDENT EXPERIENCE THAT DEFINES THE UB PHYSICS DEPARTMENT. WHETHER YOU ARE A PROSPECTIVE STUDENT, A SEASONED RESEARCHER, OR SIMPLY CURIOUS ABOUT THE FRONTIERS OF PHYSICS, THIS ARTICLE AIMS TO PROVIDE AN IN-DEPTH UNDERSTANDING OF WHAT MAKES THE UB PHYSICS DEPARTMENT A LEADING INSTITUTION IN THE FIELD. PREPARE TO DISCOVER A WORLD OF SCIENTIFIC INQUIRY, INNOVATION, AND INTELLECTUAL GROWTH.

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ACADEMIC PROGRAMS AND DEGREES

THE UB PHYSICS DEPARTMENT OFFERS A COMPREHENSIVE SUITE OF ACADEMIC PROGRAMS DESIGNED TO EQUIP STUDENTS WITH A PROFOUND UNDERSTANDING OF PHYSICAL PRINCIPLES AND THE SKILLS NECESSARY FOR ADVANCED STUDY AND DIVERSE CAREERS. FROM THE FOUNDATIONAL KNOWLEDGE GAINED IN UNDERGRADUATE COURSES TO THE SPECIALIZED EXPERTISE CULTIVATED IN GRADUATE RESEARCH, EACH PROGRAM IS METICULOUSLY CRAFTED TO FOSTER INTELLECTUAL CURIOSITY AND CRITICAL THINKING. STUDENTS ARE ENCOURAGED TO EXPLORE THE VAST LANDSCAPE OF PHYSICS, FROM THE SUBATOMIC REALM TO THE COSMIC EXPANSE, GUIDED BY A FACULTY COMMITTED TO PEDAGOGICAL EXCELLENCE.

UNDERGRADUATE STUDIES IN PHYSICS

THE UNDERGRADUATE CURRICULUM AT THE UB PHYSICS DEPARTMENT IS BUILT UPON A STRONG THEORETICAL FOUNDATION COMPLEMENTED BY HANDS-ON EXPERIMENTAL EXPERIENCE. STUDENTS EMBARK ON A JOURNEY THAT COVERS CLASSICAL MECHANICS, ELECTROMAGNETISM, THERMODYNAMICS, AND QUANTUM MECHANICS, PROGRESSIVELY BUILDING TOWARDS MORE ADVANCED TOPICS. THE DEPARTMENT EMPHASIZES A PROBLEM-SOLVING APPROACH, ENCOURAGING STUDENTS TO DEVELOP ANALYTICAL SKILLS THAT ARE TRANSFERABLE TO A WIDE ARRAY OF SCIENTIFIC AND TECHNICAL FIELDS. BEYOND CORE COURSEWORK, UNDERGRADUATES HAVE NUMEROUS OPPORTUNITIES TO ENGAGE IN RESEARCH, ALLOWING THEM TO APPLY THEORETICAL CONCEPTS TO REAL-WORLD SCIENTIFIC CHALLENGES.

GRADUATE STUDIES AND RESEARCH

FOR THOSE SEEKING TO PUSH THE BOUNDARIES OF SCIENTIFIC KNOWLEDGE, THE GRADUATE PROGRAMS AT THE UB PHYSICS DEPARTMENT PROVIDE AN UNPARALLELED ENVIRONMENT FOR ADVANCED STUDY AND RESEARCH. MASTER'S AND PH.D. CANDIDATES DELVE DEEPLY INTO SPECIALIZED AREAS, WORKING CLOSELY WITH WORLD-RENOWNED FACULTY ON INNOVATIVE PROJECTS. THE GRADUATE EXPERIENCE IS CHARACTERIZED BY INTENSIVE COURSEWORK, RIGOROUS RESEARCH METHODOLOGIES, AND THE EXPECTATION OF CONTRIBUTING NOVEL FINDINGS TO THE SCIENTIFIC COMMUNITY. THIS RIGOROUS TRAINING PREPARES GRADUATES FOR IMPACTFUL CAREERS IN ACADEMIA, INDUSTRY, AND GOVERNMENT RESEARCH.

DISTINGUISHED FACULTY AND RESEARCH AREAS

THE HEART OF ANY LEADING ACADEMIC INSTITUTION LIES IN ITS FACULTY, AND THE UB PHYSICS DEPARTMENT BOASTS A TEAM OF DISTINGUISHED SCHOLARS WHOSE EXPERTISE SPANS THE BREADTH OF MODERN PHYSICS. THESE ACCOMPLISHED RESEARCHERS ARE NOT ONLY AT THE FOREFRONT OF THEIR RESPECTIVE FIELDS BUT ARE ALSO DEDICATED EDUCATORS, PASSIONATE ABOUT MENTORING THE NEXT GENERATION OF PHYSICISTS. THEIR COLLECTIVE KNOWLEDGE AND INNOVATIVE APPROACHES DRIVE THE DEPARTMENT'S RESEARCH ENDEAVORS AND ENRICH THE LEARNING EXPERIENCE FOR ALL STUDENTS.

CUTTING-EDGE RESEARCH FRONTIERS

RESEARCH AT THE UB PHYSICS DEPARTMENT IS CHARACTERIZED BY ITS AMBITION AND ITS IMPACT. THE DEPARTMENT ACTIVELY PURSUES INVESTIGATIONS INTO SOME OF THE MOST COMPELLING QUESTIONS IN PHYSICS, CONTRIBUTING SIGNIFICANTLY TO GLOBAL SCIENTIFIC UNDERSTANDING. AREAS OF PARTICULAR STRENGTH AND FOCUS INCLUDE:

- **THEORETICAL PHYSICS:** EXPLORING THE FUNDAMENTAL LAWS THAT GOVERN THE UNIVERSE, FROM PARTICLE PHYSICS AND COSMOLOGY TO CONDENSED MATTER THEORY.
- **EXPERIMENTAL PHYSICS:** DESIGNING AND CONDUCTING EXPERIMENTS TO TEST THEORETICAL PREDICTIONS AND DISCOVER NEW PHENOMENA IN AREAS SUCH AS ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, AND CONDENSED MATTER EXPERIMENTS.
- **ASTROPHYSICS AND COSMOLOGY:** INVESTIGATING THE ORIGINS, EVOLUTION, AND STRUCTURE OF THE UNIVERSE, INCLUDING THE STUDY OF GALAXIES, BLACK HOLES, AND DARK MATTER.
- **CONDENSED MATTER PHYSICS:** STUDYING THE PROPERTIES OF MATTER IN ITS VARIOUS SOLID AND LIQUID STATES, WITH APPLICATIONS RANGING FROM NOVEL MATERIALS TO QUANTUM COMPUTING.
- **PARTICLE PHYSICS:** PROBING THE FUNDAMENTAL CONSTITUENTS OF MATTER AND THE FORCES THAT INTERACT THEM, OFTEN IN COLLABORATION WITH INTERNATIONAL RESEARCH FACILITIES.

FACULTY EXPERTISE AND CONTRIBUTIONS

THE FACULTY MEMBERS ARE THE DRIVING FORCE BEHIND THE DEPARTMENT'S RESEARCH SUCCESSSES. THEIR INDIVIDUAL AND COLLABORATIVE EFFORTS HAVE LED TO NUMEROUS PUBLICATIONS IN PRESTIGIOUS JOURNALS, SIGNIFICANT GRANT AWARDS, AND WIDESPREAD RECOGNITION WITHIN THE INTERNATIONAL PHYSICS COMMUNITY. EACH PROFESSOR BRINGS A UNIQUE PERSPECTIVE AND A WEALTH OF EXPERIENCE, FOSTERING A DYNAMIC AND INTELLECTUALLY STIMULATING RESEARCH ENVIRONMENT. THEIR MENTORSHIP ENSURES THAT STUDENTS ARE EXPOSED TO THE LATEST SCIENTIFIC METHODOLOGIES AND ARE EMPOWERED TO MAKE THEIR OWN CONTRIBUTIONS.

RESEARCH OPPORTUNITIES FOR STUDENTS

A DEFINING CHARACTERISTIC OF THE UB PHYSICS DEPARTMENT IS ITS UNWAVERING COMMITMENT TO PROVIDING STUDENTS, AT BOTH THE UNDERGRADUATE AND GRADUATE LEVELS, WITH AMPLE OPPORTUNITIES TO ENGAGE IN HANDS-ON RESEARCH. THIS IMMERSION IN THE RESEARCH PROCESS IS CRUCIAL FOR DEVELOPING A DEEP UNDERSTANDING OF SCIENTIFIC INQUIRY AND FOR HONING CRITICAL SKILLS THAT ARE ESSENTIAL FOR FUTURE SUCCESS. BY PARTICIPATING IN RESEARCH, STUDENTS GAIN INVALUABLE EXPERIENCE THAT COMPLEMENTS THEIR COURSEWORK AND PROPELS THEIR ACADEMIC AND PROFESSIONAL JOURNEYS.

UNDERGRADUATE RESEARCH INVOLVEMENT

UNDERGRADUATE STUDENTS ARE ACTIVELY ENCOURAGED TO SEEK OUT RESEARCH POSITIONS WITHIN THE DEPARTMENT. THESE

OPPORTUNITIES OFTEN INVOLVE ASSISTING GRADUATE STUDENTS AND FACULTY MEMBERS ON ONGOING PROJECTS, CONTRIBUTING TO DATA COLLECTION, ANALYSIS, AND EVEN THE DESIGN OF EXPERIMENTS. THIS EARLY EXPOSURE TO RESEARCH ALLOWS UNDERGRADUATES TO EXPLORE DIFFERENT SUBFIELDS OF PHYSICS, DISCOVER THEIR PARTICULAR INTERESTS, AND DEVELOP A STRONG FOUNDATION FOR GRADUATE STUDIES OR TECHNICAL CAREERS. MANY STUDENTS PRESENT THEIR RESEARCH FINDINGS AT DEPARTMENTAL SYMPOSIA OR EVEN AT NATIONAL CONFERENCES.

GRADUATE RESEARCH AND DISSERTATION PROJECTS

FOR GRADUATE STUDENTS, RESEARCH IS NOT JUST AN OPPORTUNITY BUT A CENTRAL COMPONENT OF THEIR ACADEMIC PROGRAM. MASTER'S STUDENTS TYPICALLY UNDERTAKE A RESEARCH PROJECT OR THESIS, WHILE PH.D. CANDIDATES ARE EXPECTED TO CONDUCT ORIGINAL RESEARCH THAT CULMINATES IN A DISSERTATION. THIS INVOLVES IDENTIFYING A RESEARCH QUESTION, DEVELOPING A METHODOLOGY, EXECUTING EXPERIMENTS OR THEORETICAL CALCULATIONS, AND INTERPRETING THE RESULTS. THE CLOSE COLLABORATION WITH FACULTY ADVISORS ENSURES THAT STUDENTS ARE WELL-SUPPORTED THROUGHOUT THEIR RESEARCH ENDEAVORS, LEADING TO SIGNIFICANT CONTRIBUTIONS TO THEIR CHOSEN FIELDS.

THE STUDENT EXPERIENCE AT UB PHYSICS

BEYOND THE RIGOROUS ACADEMIC PURSUITS, THE UB PHYSICS DEPARTMENT FOSTERS A RICH AND SUPPORTIVE STUDENT EXPERIENCE. THIS HOLISTIC APPROACH TO EDUCATION ENSURES THAT STUDENTS NOT ONLY EXCEL ACADEMICALLY BUT ALSO GROW PERSONALLY AND PROFESSIONALLY, BECOMING WELL-ROUNDED INDIVIDUALS PREPARED FOR THE CHALLENGES AND OPPORTUNITIES THAT LIE AHEAD. THE DEPARTMENT ACTIVELY CULTIVATES A SENSE OF COMMUNITY, WHERE COLLABORATION AND INTELLECTUAL EXCHANGE ARE HIGHLY VALUED.

COMMUNITY AND COLLABORATION

THE UB PHYSICS DEPARTMENT PRIDES ITSELF ON ITS STRONG SENSE OF COMMUNITY. STUDENTS OFTEN FORM STUDY GROUPS, COLLABORATE ON CHALLENGING PROBLEM SETS, AND SUPPORT EACH OTHER'S ACADEMIC ENDEAVORS. THE DEPARTMENT ALSO ORGANIZES VARIOUS SOCIAL EVENTS, SEMINARS, AND COLLOQUIA THAT BRING STUDENTS, FACULTY, AND VISITING SCHOLARS TOGETHER, FOSTERING AN ENVIRONMENT OF OPEN DIALOGUE AND INTELLECTUAL CAMARADERIE. THIS COLLABORATIVE SPIRIT IS INSTRUMENTAL IN NAVIGATING THE COMPLEXITIES OF PHYSICS AND IN BUILDING LASTING PROFESSIONAL RELATIONSHIPS.

STUDENT ORGANIZATIONS AND ACTIVITIES

A VIBRANT ECOSYSTEM OF STUDENT ORGANIZATIONS AND ACTIVITIES FURTHER ENHANCES THE STUDENT EXPERIENCE. THESE GROUPS PROVIDE PLATFORMS FOR STUDENTS TO CONNECT WITH PEERS WHO SHARE SIMILAR INTERESTS, ENGAGE IN OUTREACH ACTIVITIES, AND DEVELOP LEADERSHIP SKILLS. WHETHER IT'S THROUGH A PHYSICS CLUB, AN OUTREACH PROGRAM AIMED AT INSPIRING YOUNGER STUDENTS, OR PARTICIPATION IN DEPARTMENTAL EVENTS, THERE ARE NUMEROUS AVENUES FOR STUDENTS TO GET INVOLVED AND MAKE A MEANINGFUL IMPACT.

FACILITIES AND RESOURCES

THE UB PHYSICS DEPARTMENT IS EQUIPPED WITH STATE-OF-THE-ART FACILITIES AND RESOURCES THAT ARE ESSENTIAL FOR CONDUCTING WORLD-CLASS RESEARCH AND PROVIDING AN EXCEPTIONAL LEARNING ENVIRONMENT. THESE RESOURCES EMPOWER STUDENTS AND FACULTY TO PUSH THE BOUNDARIES OF SCIENTIFIC DISCOVERY AND TO TACKLE COMPLEX CHALLENGES IN PHYSICS.

ADVANCED RESEARCH LABORATORIES

THE DEPARTMENT HOUSES SPECIALIZED RESEARCH LABORATORIES EQUIPPED WITH THE LATEST INSTRUMENTATION. THESE INCLUDE FACILITIES FOR:

- EXPERIMENTAL CONDENSED MATTER PHYSICS, WITH CAPABILITIES FOR MATERIAL SYNTHESIS, CHARACTERIZATION, AND MEASUREMENTS AT VARIOUS TEMPERATURES AND MAGNETIC FIELDS.
- ATOMIC, MOLECULAR, AND OPTICAL (AMO) PHYSICS, FEATURING ADVANCED LASER SYSTEMS, VACUUM TECHNOLOGY, AND DETECTION EQUIPMENT FOR PRECISE MEASUREMENTS OF ATOMIC AND MOLECULAR PROPERTIES.
- ASTROPHYSICS RESEARCH, INCLUDING ACCESS TO TELESCOPES AND COMPUTATIONAL RESOURCES FOR ANALYZING ASTRONOMICAL DATA.
- PARTICLE PHYSICS RESEARCH, OFTEN INVOLVING COLLABORATIONS WITH NATIONAL AND INTERNATIONAL ACCELERATORS AND DETECTORS.

COMPUTATIONAL RESOURCES

MODERN PHYSICS RESEARCH RELIES HEAVILY ON ADVANCED COMPUTATIONAL POWER. THE UB PHYSICS DEPARTMENT PROVIDES STUDENTS AND FACULTY WITH ACCESS TO HIGH-PERFORMANCE COMPUTING CLUSTERS, SPECIALIZED SOFTWARE FOR THEORETICAL MODELING AND DATA ANALYSIS, AND EXTENSIVE DATA STORAGE CAPABILITIES. THESE RESOURCES ARE INDISPENSABLE FOR SIMULATIONS, DATA PROCESSING, AND THE DEVELOPMENT OF THEORETICAL FRAMEWORKS.

CAREER PATHS AND ALUMNI SUCCESS

GRADUATES FROM THE UB PHYSICS DEPARTMENT ARE HIGHLY SOUGHT AFTER IN A DIVERSE RANGE OF FIELDS, A TESTAMENT TO THE RIGOROUS TRAINING AND BROAD SKILL SET THEY ACQUIRE. THE ANALYTICAL, PROBLEM-SOLVING, AND QUANTITATIVE ABILITIES HONED DURING THEIR STUDIES ARE TRANSFERABLE AND VALUABLE ACROSS NUMEROUS INDUSTRIES AND ACADEMIC DISCIPLINES.

ACADEMIA AND RESEARCH INSTITUTIONS

MANY ALUMNI PURSUE CAREERS IN ACADEMIA, CONTINUING THEIR RESEARCH JOURNEYS AS PROFESSORS AT UNIVERSITIES OR AS RESEARCHERS AT NATIONAL LABORATORIES AND INSTITUTES. THEY CONTRIBUTE TO THE ADVANCEMENT OF SCIENTIFIC KNOWLEDGE, MENTOR FUTURE GENERATIONS OF SCIENTISTS, AND PLAY VITAL ROLES IN SHAPING THE FUTURE OF PHYSICS RESEARCH.

INDUSTRY AND TECHNOLOGY SECTORS

THE DEMAND FOR PHYSICS GRADUATES EXTENDS FAR BEYOND ACADEMIA. ALUMNI FIND FULFILLING CAREERS IN VARIOUS INDUSTRY SECTORS, INCLUDING TECHNOLOGY, ENGINEERING, FINANCE, DATA SCIENCE, AND CONSULTING. THEIR EXPERTISE IN AREAS SUCH AS MODELING, SIMULATION, DATA ANALYSIS, AND COMPLEX PROBLEM-SOLVING MAKES THEM INVALUABLE ASSETS IN INNOVATIVE COMPANIES AND CUTTING-EDGE TECHNOLOGICAL DEVELOPMENT. THE LOGICAL AND ANALYTICAL THINKING CULTIVATED BY A PHYSICS EDUCATION IS A CORNERSTONE OF SUCCESS IN THESE DYNAMIC ENVIRONMENTS.

GOVERNMENT AND Non-PROFIT ORGANIZATIONS

FURTHERMORE, UB PHYSICS ALUMNI CONTRIBUTE THEIR SKILLS TO GOVERNMENT AGENCIES, NATIONAL SECURITY ORGANIZATIONS, AND NON-PROFIT RESEARCH FOUNDATIONS. THEY APPLY THEIR SCIENTIFIC ACUMEN TO ADDRESS SOCIETAL CHALLENGES, CONTRIBUTE TO POLICY DEVELOPMENT, AND DRIVE INNOVATION IN AREAS CRITICAL TO PUBLIC WELFARE AND ADVANCEMENT. THE VERSATILITY OF A PHYSICS DEGREE ENSURES A BROAD SPECTRUM OF IMPACTFUL CAREER OPPORTUNITIES.

FREQUENTLY ASKED QUESTIONS ABOUT THE UB PHYSICS DEPARTMENT

Q: WHAT ARE THE PRIMARY RESEARCH AREAS WITHIN THE UB PHYSICS DEPARTMENT?

A: THE UB PHYSICS DEPARTMENT IS ACTIVELY INVOLVED IN SEVERAL CUTTING-EDGE RESEARCH AREAS, INCLUDING THEORETICAL PHYSICS (PARTICLE PHYSICS, COSMOLOGY, CONDENSED MATTER THEORY), EXPERIMENTAL PHYSICS (ATOMIC, MOLECULAR, AND OPTICAL PHYSICS, CONDENSED MATTER EXPERIMENTS), ASTROPHYSICS AND COSMOLOGY, AND PARTICLE PHYSICS.

Q: WHAT TYPES OF UNDERGRADUATE DEGREES ARE OFFERED BY THE UB PHYSICS DEPARTMENT?

A: THE DEPARTMENT OFFERS A BACHELOR OF SCIENCE (B.S.) DEGREE IN PHYSICS, PROVIDING A STRONG FOUNDATION IN THEORETICAL AND EXPERIMENTAL PHYSICS. THERE ARE OFTEN OPTIONS FOR SPECIALIZATION OR HONORS PROGRAMS WITHIN THE UNDERGRADUATE CURRICULUM.

Q: HOW CAN UNDERGRADUATE STUDENTS GET INVOLVED IN RESEARCH AT THE UB PHYSICS DEPARTMENT?

A: UNDERGRADUATE STUDENTS CAN BECOME INVOLVED IN RESEARCH BY REACHING OUT TO FACULTY MEMBERS WHOSE RESEARCH INTERESTS ALIGN WITH THEIR OWN, INQUIRING ABOUT OPEN RESEARCH POSITIONS, OR BY PARTICIPATING IN DEPARTMENTAL RESEARCH PROGRAMS AND OPPORTUNITIES SPECIFICALLY DESIGNED FOR UNDERGRADUATES.

Q: WHAT ARE THE TYPICAL CAREER PATHS FOR GRADUATES OF THE UB PHYSICS DEPARTMENT?

A: GRADUATES PURSUE DIVERSE CAREER PATHS, INCLUDING ACADEMIA (PROFESSORSHIPS, POST-DOCTORAL RESEARCH), INDUSTRY (TECHNOLOGY, ENGINEERING, FINANCE, DATA SCIENCE), AND GOVERNMENT RESEARCH POSITIONS. THE PROBLEM-SOLVING AND ANALYTICAL SKILLS GAINED ARE HIGHLY VALUED ACROSS MANY SECTORS.

Q: DOES THE UB PHYSICS DEPARTMENT OFFER GRADUATE PROGRAMS IN PHYSICS?

A: YES, THE UB PHYSICS DEPARTMENT OFFERS BOTH MASTER OF SCIENCE (M.S.) AND DOCTOR OF PHILOSOPHY (PH.D.) PROGRAMS IN PHYSICS, PROVIDING ADVANCED TRAINING AND RESEARCH OPPORTUNITIES FOR ASPIRING PHYSICISTS.

Q: WHAT KIND OF FACILITIES AND RESOURCES ARE AVAILABLE FOR PHYSICS STUDENTS AT UB?

A: THE DEPARTMENT IS EQUIPPED WITH STATE-OF-THE-ART RESEARCH LABORATORIES FOR VARIOUS SUBFIELDS OF PHYSICS, ADVANCED COMPUTATIONAL RESOURCES INCLUDING HIGH-PERFORMANCE COMPUTING CLUSTERS, AND ACCESS TO SPECIALIZED SOFTWARE FOR THEORETICAL MODELING AND DATA ANALYSIS.

Q: ARE THERE OPPORTUNITIES FOR STUDENTS TO ENGAGE IN INTERDISCIPLINARY RESEARCH?

A: THE UB PHYSICS DEPARTMENT ENCOURAGES INTERDISCIPLINARY RESEARCH, AND FACULTY OFTEN COLLABORATE WITH RESEARCHERS IN OTHER DEPARTMENTS, SUCH AS ENGINEERING, CHEMISTRY, AND MATERIALS SCIENCE, PROVIDING STUDENTS WITH OPPORTUNITIES TO EXPLORE PHYSICS FROM MULTIPLE PERSPECTIVES.

Q: WHAT IS THE TYPICAL CLASS SIZE FOR INTRODUCTORY PHYSICS COURSES AT UB?

A: INTRODUCTORY PHYSICS COURSES AT THE UNDERGRADUATE LEVEL CAN VARY IN SIZE, BUT GENERALLY, THEY ARE DESIGNED TO ACCOMMODATE A SIGNIFICANT NUMBER OF STUDENTS, WHILE UPPER-LEVEL AND GRADUATE COURSES TEND TO HAVE SMALLER CLASS SIZES TO FOSTER MORE INTIMATE DISCUSSION AND INTERACTION.

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