

WASHU PHYSICS MAJOR

THE WASHU PHYSICS MAJOR OFFERS A RIGOROUS AND REWARDING ACADEMIC PATH FOR STUDENTS PASSIONATE ABOUT UNDERSTANDING THE FUNDAMENTAL LAWS GOVERNING THE UNIVERSE. AT WASHINGTON UNIVERSITY IN ST. LOUIS, THIS PROGRAM IS DESIGNED TO EQUIP UNDERGRADUATES WITH A DEEP CONCEPTUAL UNDERSTANDING AND STRONG ANALYTICAL SKILLS ESSENTIAL FOR A WIDE RANGE OF SCIENTIFIC AND TECHNICAL CAREERS. THIS COMPREHENSIVE GUIDE DELVES INTO WHAT MAKES A WASHU PHYSICS EDUCATION STAND OUT, EXPLORING THE CURRICULUM, RESEARCH OPPORTUNITIES, FACULTY EXPERTISE, AND THE DIVERSE CAREER TRAJECTORIES OF ITS GRADUATES. WHETHER YOU'RE A PROSPECTIVE STUDENT CURIOUS ABOUT THE CHALLENGES AND REWARDS, OR A CURRENT STUDENT SEEKING TO MAXIMIZE YOUR EXPERIENCE, THIS ARTICLE WILL PROVIDE VALUABLE INSIGHTS INTO THE WORLD OF PHYSICS AT WASHU.

TABLE OF CONTENTS

UNDERSTANDING THE WASHU PHYSICS CURRICULUM

CORE PHYSICS COURSEWORK

ADVANCED ELECTIVES AND SPECIALIZATIONS

ESSENTIAL MATHEMATICAL FOUNDATIONS

RESEARCH OPPORTUNITIES FOR UNDERGRADUATE PHYSICS STUDENTS

FACULTY-LED RESEARCH PROJECTS

INDEPENDENT STUDY AND SENIOR THESIS

BRIDGING THEORY AND PRACTICE: LABORATORY EXPERIENCES

THE ROLE OF THE PHYSICS DEPARTMENT AT WASHU

RENOWNED FACULTY AND THEIR EXPERTISE

INTERDISCIPLINARY CONNECTIONS

CAREER PATHS FOR WASHU PHYSICS GRADUATES

ACADEMIA AND RESEARCH

INDUSTRY AND TECHNOLOGY

DATA SCIENCE AND FINANCE

PREPARING FOR GRADUATE STUDIES

THE WASHU PHYSICS COMMUNITY

UNDERSTANDING THE WASHU PHYSICS CURRICULUM

EMBARKING ON A JOURNEY AS A WASHU PHYSICS MAJOR MEANS IMMERSING YOURSELF IN A CURRICULUM METICULOUSLY CRAFTED TO BUILD A ROBUST UNDERSTANDING OF PHYSICAL PRINCIPLES. THE PROGRAM EMPHASIZES NOT JUST MEMORIZATION OF FORMULAS, BUT A DEEP CONCEPTUAL GRASP OF HOW THE UNIVERSE OPERATES, FROM THE SUBATOMIC REALM TO THE VASTNESS OF COSMOLOGY. YOU'LL FIND A STRONG EMPHASIS ON PROBLEM-SOLVING, CRITICAL THINKING, AND THE DEVELOPMENT OF ANALYTICAL SKILLS THAT ARE TRANSFERABLE ACROSS MANY DISCIPLINES. THE PROGRESSION THROUGH THE COURSEWORK IS DESIGNED TO BE CHALLENGING YET SUPPORTIVE, ENSURING STUDENTS BUILD A SOLID FOUNDATION BEFORE VENTURING INTO MORE SPECIALIZED AREAS.

CORE PHYSICS COURSEWORK

THE FOUNDATIONAL YEARS OF THE WASHU PHYSICS PROGRAM ARE DEDICATED TO MASTERING THE ESSENTIAL BUILDING BLOCKS OF CLASSICAL AND MODERN PHYSICS. COURSES LIKE INTRODUCTORY MECHANICS, ELECTRICITY AND MAGNETISM, AND THERMODYNAMICS PROVIDE THE BEDROCK UPON WHICH MORE ADVANCED TOPICS ARE BUILT. THESE COURSES ARE TYPICALLY ACCOMPANIED BY RIGOROUS LABORATORY COMPONENTS, ALLOWING STUDENTS TO SEE THEORETICAL CONCEPTS COME ALIVE THROUGH HANDS-ON EXPERIMENTATION. EXPECT TO ENGAGE WITH COMPLEX PROBLEM SETS THAT HONE YOUR ABILITY TO APPLY PHYSICAL LAWS TO REAL-WORLD SCENARIOS. THIS CORE SEQUENCE IS CRUCIAL FOR DEVELOPING THE INTUITION AND ANALYTICAL TOOLKIT NECESSARY FOR SUCCESS IN SUBSEQUENT STUDIES.

ADVANCED ELECTIVES AND SPECIALIZATIONS

AS YOU PROGRESS THROUGH THE PROGRAM, THE WASHU PHYSICS MAJOR OFFERS A WEALTH OF ADVANCED ELECTIVES, ALLOWING YOU TO TAILOR YOUR STUDIES TO YOUR SPECIFIC INTERESTS. YOU MIGHT DELVE INTO THE INTRICACIES OF QUANTUM MECHANICS, EXPLORE THE FASCINATING WORLD OF ASTROPHYSICS AND COSMOLOGY, OR IMMERSE YOURSELF IN CONDENSED MATTER PHYSICS. OTHER POPULAR SPECIALIZATIONS CAN INCLUDE NUCLEAR PHYSICS, PARTICLE PHYSICS, AND BIOPHYSICS. THESE ELECTIVES PROVIDE OPPORTUNITIES TO WORK WITH FACULTY AT THE FOREFRONT OF THEIR RESPECTIVE FIELDS AND TO EXPLORE CUTTING-EDGE RESEARCH AREAS. THE FLEXIBILITY WITHIN THE CURRICULUM EMPOWERS YOU TO CRAFT A UNIQUE ACADEMIC PATH THAT ALIGNS WITH YOUR FUTURE ASPIRATIONS, WHETHER THAT'S RESEARCH, INDUSTRY, OR FURTHER GRADUATE STUDIES.

ESSENTIAL MATHEMATICAL FOUNDATIONS

PHYSICS AND MATHEMATICS ARE INEXTRICABLY LINKED, AND THE WASHU PHYSICS MAJOR PLACES A SIGNIFICANT EMPHASIS ON DEVELOPING STRONG MATHEMATICAL PROFICIENCY. STUDENTS ARE EXPECTED TO HAVE A SOLID UNDERSTANDING OF CALCULUS, DIFFERENTIAL EQUATIONS, AND LINEAR ALGEBRA. THESE MATHEMATICAL TOOLS ARE NOT MERELY PREREQUISITES BUT ARE WOVEN INTO THE FABRIC OF PHYSICS COURSEWORK, ENABLING STUDENTS TO FORMULATE AND SOLVE COMPLEX PHYSICAL PROBLEMS. THE DEPARTMENT OFTEN COLLABORATES WITH THE MATHEMATICS DEPARTMENT TO ENSURE THAT PHYSICS STUDENTS RECEIVE THE NECESSARY MATHEMATICAL TRAINING TO EXCEL IN THEIR STUDIES. MASTERING THESE MATHEMATICAL CONCEPTS IS AS VITAL AS UNDERSTANDING THE PHYSICAL PRINCIPLES THEMSELVES.

RESEARCH OPPORTUNITIES FOR UNDERGRADUATE PHYSICS STUDENTS

ONE OF THE MOST COMPELLING ASPECTS OF THE WASHU PHYSICS MAJOR IS THE UNPARALLELED ACCESS TO CUTTING-EDGE RESEARCH OPPORTUNITIES FOR UNDERGRADUATES. WASHINGTON UNIVERSITY IN ST. LOUIS IS A VIBRANT RESEARCH INSTITUTION, AND THE PHYSICS DEPARTMENT ACTIVELY INVOLVES STUDENTS IN ONGOING SCIENTIFIC DISCOVERY. THESE EXPERIENCES GO BEYOND CLASSROOM LEARNING, OFFERING INVALUABLE HANDS-ON TRAINING AND A GLIMPSE INTO THE PROFESSIONAL WORLD OF PHYSICS RESEARCH. PARTICIPATING IN RESEARCH CAN SIGNIFICANTLY SHAPE YOUR UNDERGRADUATE EXPERIENCE AND PREPARE YOU FOR FUTURE ACADEMIC OR PROFESSIONAL PURSUITS.

FACULTY-LED RESEARCH PROJECTS

UNDERGRADUATE STUDENTS HAVE THE CHANCE TO WORK DIRECTLY WITH FACULTY MEMBERS ON A DIVERSE ARRAY OF RESEARCH PROJECTS. THESE PROJECTS SPAN THE BREADTH OF PHYSICS, FROM THEORETICAL INVESTIGATIONS INTO THE NATURE OF DARK MATTER TO EXPERIMENTAL WORK ON NOVEL MATERIALS OR THE DEVELOPMENT OF ADVANCED SCIENTIFIC INSTRUMENTATION. ENGAGING IN FACULTY-LED RESEARCH ALLOWS YOU TO CONTRIBUTE TO MEANINGFUL SCIENTIFIC ENDEAVORS, LEARN ADVANCED EXPERIMENTAL AND COMPUTATIONAL TECHNIQUES, AND DEVELOP CRUCIAL PROBLEM-SOLVING SKILLS. BUILDING A STRONG RELATIONSHIP WITH A FACULTY MENTOR THROUGH RESEARCH CAN ALSO BE INSTRUMENTAL IN SECURING LETTERS OF RECOMMENDATION FOR GRADUATE SCHOOL OR FUTURE EMPLOYMENT.

INDEPENDENT STUDY AND SENIOR THESIS

FOR STUDENTS SEEKING A MORE INDIVIDUALIZED RESEARCH EXPERIENCE, THE WASHU PHYSICS DEPARTMENT OFFERS INDEPENDENT STUDY AND THE SENIOR THESIS OPTION. INDEPENDENT STUDY ALLOWS STUDENTS TO PURSUE A RESEARCH TOPIC OF THEIR OWN CHOOSING UNDER THE GUIDANCE OF A FACULTY ADVISOR. THE SENIOR THESIS, A CAPSTONE EXPERIENCE FOR MANY PHYSICS MAJORS, INVOLVES UNDERTAKING A SIGNIFICANT RESEARCH PROJECT, OFTEN CULMINATING IN A WRITTEN THESIS AND A PUBLIC PRESENTATION. THIS RIGOROUS PROCESS CULTIVATES A HIGH LEVEL OF SCIENTIFIC MATURITY, INDEPENDENT THINKING, AND COMMUNICATION SKILLS, PREPARING GRADUATES FOR THE CHALLENGES OF ADVANCED ACADEMIC WORK.

BRIDGING THEORY AND PRACTICE: LABORATORY EXPERIENCES

THE PHYSICS CURRICULUM AT WASHU STRONGLY EMPHASIZES THE SYNERGY BETWEEN THEORETICAL KNOWLEDGE AND PRACTICAL APPLICATION, PARTICULARLY THROUGH ITS EXTENSIVE LABORATORY COMPONENTS. FROM INTRODUCTORY LABS WHERE STUDENTS VERIFY FUNDAMENTAL PRINCIPLES TO ADVANCED EXPERIMENTAL COURSES THAT MIRROR PROFESSIONAL RESEARCH SETTINGS, THESE EXPERIENCES ARE CENTRAL TO THE LEARNING PROCESS. STUDENTS LEARN TO DESIGN EXPERIMENTS, COLLECT AND ANALYZE DATA, TROUBLESHOOT EQUIPMENT, AND INTERPRET RESULTS, DEVELOPING A KEEN EXPERIMENTAL INTUITION. THESE HANDS-ON SKILLS ARE HIGHLY VALUED BY EMPLOYERS AND GRADUATE PROGRAMS ALIKE, DEMONSTRATING A STUDENT'S ABILITY TO TRANSLATE ABSTRACT THEORIES INTO TANGIBLE OUTCOMES.

THE WASHU PHYSICS COMMUNITY

BEYOND THE ACADEMIC RIGOR, THE WASHU PHYSICS MAJOR FOSTERS A STRONG SENSE OF COMMUNITY. THE DEPARTMENT IS HOME TO A DIVERSE GROUP OF STUDENTS, FACULTY, AND STAFF, ALL UNITED BY A SHARED PASSION FOR UNDERSTANDING THE UNIVERSE. THIS COLLABORATIVE ENVIRONMENT PROVIDES A SUPPORTIVE NETWORK FOR STUDENTS, ENCOURAGING INTELLECTUAL EXCHANGE AND PEER LEARNING. THE DEPARTMENT ACTIVELY WORKS TO CREATE AN INCLUSIVE AND ENGAGING ATMOSPHERE WHERE STUDENTS FEEL EMPOWERED TO EXPLORE THEIR INTERESTS AND EXCEL.

RENOWNED FACULTY AND THEIR EXPERTISE

THE FACULTY WITHIN THE WASHU PHYSICS DEPARTMENT ARE LEADERS IN THEIR RESPECTIVE FIELDS, BRINGING A WEALTH OF KNOWLEDGE AND RESEARCH EXPERIENCE TO THE CLASSROOM AND LABORATORY. THEIR EXPERTISE COVERS A BROAD SPECTRUM OF PHYSICS, INCLUDING ASTROPHYSICS, PARTICLE PHYSICS, CONDENSED MATTER PHYSICS, AND BIOPHYSICS. STUDENTS BENEFIT IMMENSELY FROM LEARNING FROM THESE ACCOMPLISHED RESEARCHERS, GAINING INSIGHTS INTO THE LATEST SCIENTIFIC ADVANCEMENTS AND RESEARCH METHODOLOGIES. THE OPPORTUNITY TO INTERACT WITH AND BE MENTORED BY SUCH DISTINGUISHED INDIVIDUALS IS A SIGNIFICANT ADVANTAGE OF PURSUING PHYSICS AT WASHU.

INTERDISCIPLINARY CONNECTIONS

PHYSICS IS A FOUNDATIONAL SCIENCE THAT CONNECTS WITH NUMEROUS OTHER DISCIPLINES, AND THE WASHU PHYSICS MAJOR ACTIVELY ENCOURAGES INTERDISCIPLINARY EXPLORATION. STUDENTS OFTEN FIND THEMSELVES DRAWING UPON KNOWLEDGE FROM MATHEMATICS, COMPUTER SCIENCE, ENGINEERING, AND EVEN BIOLOGY OR CHEMISTRY. THE DEPARTMENT SUPPORTS STUDENTS IN PURSUING DOUBLE MAJORS OR MINORS IN RELATED FIELDS, ALLOWING THEM TO DEVELOP A BROADER SKILLSET AND A MORE COMPREHENSIVE UNDERSTANDING OF COMPLEX SCIENTIFIC CHALLENGES. THIS INTERDISCIPLINARY APPROACH PREPARES GRADUATES FOR A WORLD WHERE REAL-WORLD PROBLEMS OFTEN REQUIRE INSIGHTS FROM MULTIPLE SCIENTIFIC DOMAINS.

CAREER PATHS FOR WASHU PHYSICS GRADUATES

A WASHU PHYSICS MAJOR OPENS DOORS TO AN INCREDIBLY DIVERSE RANGE OF CAREER OPPORTUNITIES. THE ANALYTICAL, PROBLEM-SOLVING, AND QUANTITATIVE SKILLS HONED THROUGH THE PHYSICS CURRICULUM ARE HIGHLY SOUGHT AFTER IN VIRTUALLY EVERY SECTOR OF THE ECONOMY. GRADUATES ARE WELL-EQUIPPED TO TACKLE COMPLEX CHALLENGES, THINK CRITICALLY, AND ADAPT TO NEW TECHNOLOGIES AND ENVIRONMENTS. WHETHER ONE CHOOSES TO PURSUE FURTHER ACADEMIC STUDY OR ENTER THE PROFESSIONAL WORKFORCE DIRECTLY, A WASHU PHYSICS DEGREE PROVIDES A STRONG FOUNDATION FOR A SUCCESSFUL AND FULFILLING CAREER.

ACADEMIA AND RESEARCH

FOR MANY PHYSICS GRADUATES, THE PATH LEADS TO ACADEMIA AND FURTHER RESEARCH. A SIGNIFICANT NUMBER PURSUE PH.D. DEGREES, CONTINUING THEIR JOURNEY AS RESEARCHERS, PROFESSORS, AND SCHOLARS. THESE INDIVIDUALS CONTRIBUTE TO THE ADVANCEMENT OF SCIENTIFIC KNOWLEDGE, PUSHING THE BOUNDARIES OF OUR UNDERSTANDING OF THE UNIVERSE, AND EDUCATING THE NEXT GENERATION OF SCIENTISTS. THE RIGOROUS TRAINING RECEIVED AT WASHU PREPARES THEM EXCEPTIONALLY WELL FOR THE DEMANDS OF COMPETITIVE GRADUATE PROGRAMS AND RESEARCH POSITIONS AT UNIVERSITIES AND NATIONAL LABORATORIES WORLDWIDE.

INDUSTRY AND TECHNOLOGY

THE SKILLS OF A PHYSICS MAJOR ARE ALSO HIGHLY VALUED IN THE TECHNOLOGY SECTOR AND VARIOUS INDUSTRIES. GRADUATES FIND REWARDING CAREERS IN FIELDS SUCH AS SOFTWARE DEVELOPMENT, AEROSPACE ENGINEERING, MATERIALS SCIENCE, OPTICS, AND INSTRUMENTATION. THE ABILITY TO APPROACH COMPLEX PROBLEMS WITH A SYSTEMATIC AND QUANTITATIVE MINDSET, COUPLED WITH STRONG ANALYTICAL AND COMPUTATIONAL SKILLS, MAKES PHYSICS GRADUATES EXCEPTIONALLY ADAPTABLE AND VALUABLE ASSETS TO TECHNOLOGY-DRIVEN COMPANIES. MANY ALUMNI WORK IN INNOVATIVE ROLES, DEVELOPING NEW PRODUCTS AND TECHNOLOGIES THAT SHAPE OUR MODERN WORLD.

DATA SCIENCE AND FINANCE

THE QUANTITATIVE RIGOR OF A WASHU PHYSICS MAJOR MAKES GRADUATES PARTICULARLY WELL-SUITED FOR CAREERS IN DATA SCIENCE AND FINANCE. THE ABILITY TO MODEL COMPLEX SYSTEMS, ANALYZE LARGE DATASETS, AND DEVELOP PREDICTIVE ALGORITHMS ARE CORE COMPETENCIES FOR PHYSICS MAJORS. IN DATA SCIENCE, THEY APPLY THESE SKILLS TO EXTRACT INSIGHTS FROM DATA ACROSS VARIOUS INDUSTRIES. IN FINANCE, THEIR QUANTITATIVE APTITUDE IS INVALUABLE FOR ROLES IN QUANTITATIVE ANALYSIS, RISK MANAGEMENT, AND FINANCIAL MODELING. THE ANALYTICAL TRAINING FROM PHYSICS PROVIDES A DISTINCT ADVANTAGE IN THESE RAPIDLY GROWING FIELDS.

PREPARING FOR GRADUATE STUDIES

THE WASHU PHYSICS MAJOR IS AN EXCELLENT PREPARATION FOR GRADUATE STUDIES IN PHYSICS OR RELATED SCIENTIFIC FIELDS. THE COMPREHENSIVE CURRICULUM, COUPLED WITH RESEARCH EXPERIENCES, PROVIDES STUDENTS WITH THE FOUNDATIONAL KNOWLEDGE AND ADVANCED SKILLS NECESSARY TO EXCEL IN PH.D. PROGRAMS. FACULTY MENTORS ARE DEDICATED TO GUIDING STUDENTS THROUGH THE GRADUATE SCHOOL APPLICATION PROCESS, OFFERING ADVICE ON PROGRAM SELECTION, AND PROVIDING STRONG LETTERS OF RECOMMENDATION. THE DEPARTMENT'S STRONG REPUTATION AND THE SUCCESS OF ITS ALUMNI IN TOP GRADUATE PROGRAMS ATTEST TO THE QUALITY OF THE UNDERGRADUATE PHYSICS EDUCATION.

THE WASHU PHYSICS DEPARTMENT EXPERIENCE

THE OVERALL EXPERIENCE OF BEING A PHYSICS MAJOR AT WASHU IS CHARACTERIZED BY INTELLECTUAL STIMULATION, COLLABORATIVE LEARNING, AND A SUPPORTIVE ENVIRONMENT. STUDENTS ARE ENCOURAGED TO ENGAGE ACTIVELY WITH THE MATERIAL, ASK CHALLENGING QUESTIONS, AND EXPLORE THEIR SCIENTIFIC CURIOSITIES. THE DEPARTMENT HOSTS VARIOUS EVENTS, SEMINARS, AND STUDENT ORGANIZATIONS THAT FOSTER A STRONG SENSE OF BELONGING AND PROVIDE OPPORTUNITIES FOR NETWORKING AND PROFESSIONAL DEVELOPMENT. THIS HOLISTIC APPROACH ENSURES THAT STUDENTS NOT ONLY GAIN A DEEP UNDERSTANDING OF PHYSICS BUT ALSO DEVELOP INTO WELL-ROUNDED INDIVIDUALS PREPARED FOR DIVERSE CAREER PATHS.

FAQ

Q: WHAT ARE THE PREREQUISITES FOR THE WASHU PHYSICS MAJOR?

A: PROSPECTIVE WASHU PHYSICS MAJORS TYPICALLY NEED TO HAVE COMPLETED ADVANCED HIGH SCHOOL MATHEMATICS, INCLUDING CALCULUS, AND A STRONG FOUNDATION IN PHYSICS. SPECIFIC COURSE REQUIREMENTS CAN BE FOUND ON THE WASHINGTON UNIVERSITY IN ST. LOUIS PHYSICS DEPARTMENT WEBSITE, BUT A SOLID GRASP OF ALGEBRA, TRIGONOMETRY, AND INTRODUCTORY PHYSICS CONCEPTS IS GENERALLY EXPECTED.

Q: ARE THERE OPPORTUNITIES FOR UNDERGRADUATE RESEARCH IN PHYSICS AT WASHU?

A: ABSOLUTELY! THE WASHU PHYSICS DEPARTMENT STRONGLY ENCOURAGES AND FACILITATES UNDERGRADUATE RESEARCH. STUDENTS CAN ENGAGE IN FACULTY-LED RESEARCH PROJECTS, INDEPENDENT STUDY, AND SENIOR THESIS WORK, GAINING INVALUABLE HANDS-ON EXPERIENCE IN VARIOUS SUBFIELDS OF PHYSICS.

Q: WHAT KIND OF MATHEMATICAL BACKGROUND IS REQUIRED FOR A WASHU PHYSICS MAJOR?

A: A STRONG MATHEMATICAL FOUNDATION IS CRUCIAL. STUDENTS WILL TYPICALLY TAKE COURSES IN CALCULUS I, II, AND III, DIFFERENTIAL EQUATIONS, AND LINEAR ALGEBRA. THE PHYSICS CURRICULUM IS DEEPLY INTERTWINED WITH THESE MATHEMATICAL TOOLS, SO PROFICIENCY IS ESSENTIAL FOR SUCCESS.

Q: CAN I DOUBLE MAJOR OR MINOR WITH A WASHU PHYSICS MAJOR?

A: YES, IT IS COMMON AND OFTEN ENCOURAGED FOR PHYSICS MAJORS AT WASHU TO PURSUE DOUBLE MAJORS OR MINORS IN RELATED FIELDS SUCH AS MATHEMATICS, COMPUTER SCIENCE, ENGINEERING, OR CHEMISTRY. THIS INTERDISCIPLINARY APPROACH CAN BROADEN CAREER OPPORTUNITIES.

Q: WHAT CAREER PATHS ARE TYPICAL FOR WASHU PHYSICS GRADUATES?

A: WASHU PHYSICS GRADUATES PURSUE A WIDE ARRAY OF CAREERS, INCLUDING ACADEMIA AND RESEARCH, SOFTWARE DEVELOPMENT, DATA SCIENCE, ENGINEERING, FINANCE, PATENT LAW, AND VARIOUS TECHNOLOGY-DRIVEN INDUSTRIES. THE ANALYTICAL AND PROBLEM-SOLVING SKILLS GAINED ARE HIGHLY TRANSFERABLE.

Q: WHAT IS THE AVERAGE CLASS SIZE FOR PHYSICS COURSES AT WASHU?

A: INTRODUCTORY PHYSICS LECTURES MIGHT HAVE LARGER CLASS SIZES, BUT AS STUDENTS PROGRESS INTO UPPER-LEVEL COURSES AND LABORATORIES, THE CLASS SIZES BECOME SIGNIFICANTLY SMALLER, ALLOWING FOR MORE PERSONALIZED INSTRUCTION AND INTERACTION WITH FACULTY.

Q: HOW DOES THE WASHU PHYSICS DEPARTMENT SUPPORT STUDENTS PREPARING FOR GRADUATE SCHOOL?

A: THE DEPARTMENT OFFERS ROBUST SUPPORT FOR GRADUATE SCHOOL PREPARATION. THIS INCLUDES GUIDANCE ON SELECTING PROGRAMS, ASSISTANCE WITH THE APPLICATION PROCESS, AND STRONG LETTERS OF RECOMMENDATION FROM FACULTY WHO ARE FAMILIAR WITH THE STUDENT'S RESEARCH AND ACADEMIC PERFORMANCE.

Q: ARE THERE SPECIFIC RESEARCH AREAS THAT THE WASHU PHYSICS DEPARTMENT IS PARTICULARLY KNOWN FOR?

A: WHILE THE DEPARTMENT EXCELS ACROSS MANY AREAS, WASHU PHYSICS HAS NOTABLE STRENGTHS IN FIELDS SUCH AS ASTROPHYSICS, CONDENSED MATTER PHYSICS, PARTICLE PHYSICS, AND BIOPHYSICS, AMONG OTHERS. STUDENTS HAVE OPPORTUNITIES TO WORK WITH LEADING RESEARCHERS IN THESE AND OTHER VIBRANT SUBFIELDS.

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