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## Michigan university masters

Rackham students can pursue specialized degrees in two areas through the Graduate School, or combine them with a professional degree. Rackham offers dual degree programs in the following fields: Business Administration and Educational Leadership and Policy; Civil Engineering and Business Administration; Clinical Pharmacy and Translational Sciences; Construction Engineering and Management and Business Administration; Economics and Law; Education and Business Administration; Environment and Sustainability and Business Administration; Environment and Sustainability and Chemical Engineering; Environment and Sustainability and Civil and Environmental Engineering; Environment and Sustainability and Mechanical Engineering; Environment and Sustainability and Law; Higher Education and Business Administration; Higher Education and Medicine; Higher Education and Public Policy; Industrial and Operations Engineering and Business Administration; Medicine and Pharmacy; Naval Architecture and Marine Engineering and Business Administration; Pediatric Dentistry and Dental Public Health; Pharmaceutical Sciences and Pharmacy; Pharmacy and Clinical Pharmacy Translational Sciences; Pharmacy and Medicinal Chemistry; Political Science with a focus on World Politics and Law; Public Policy and Business Administration; Public Policy and Environment and Sustainability; Public Policy and Law; Public Policy and Public Health; Public Policy and Health Services Administration; Public Policy and Medicine; Urban Regional Planning and Architecture; Urban Regional Planning and Business Administration; Urban Regional Planning and Environment and Sustainability; Urban Regional Planning and Law; Urban Regional Planning and Social Work. Additionally, Rackham offers dual undergraduate/graduate programs with AMDP partners from the University of Hong Kong, Shenzhen, Tsinghua, and other institutions. M.S.) CUGS (Undergraduate and Rackham LSA Master's M.A./ M.S.) CUGS (Undergraduate LSA and Rackham Media Arts Master's M.A.) CUGS (Undergraduate and Rackham Urban and Regional Planning Master's M.U.P.) SUGS (Undergraduate LSA and Rackham Psychology Master's M.S.) SUGS (Undergraduate Engineering and Rackham Engineering Master's M.S./M.S.E.) SUGS (Undergraduate LSA Science and Rackham Educational Studies Master's M.A.) SUGS (Undergraduate LSA and Rackham Chemistry Master's M.S.) Graduate students at the University of Michigan share inspiring stories about their research. The Rackham Predoctoral Fellowship supports exceptional PhD students working on innovative dissertations. Given article text here The Value of Professional Education for Advancement Pursuing advanced degrees can significantly enhance one's career prospects and earning potential. By investing in a master's degree, individuals can acquire specialized knowledge and skills that are highly valued by employers. Furthermore, earning credentials such as Lean and Six Sigma certifications can further boost career advancement. The benefits of pursuing an engineering degree include access to mentorship, networking opportunities, and industry-specific experience. This hands-on experience is invaluable for developing practical skills and establishing a strong professional network. As a result, individuals with advanced degrees in engineering are more likely to be qualified for specialized or senior-level roles. Visiting campus and speaking with graduate coordinators can provide valuable insights into the potential benefits of pursuing a graduate degree. By exploring available programs and discussing career goals with professionals, individuals can make informed decisions about their educational path. Degrees offered include Master of Arts in Arts Administration, Master of Science in Biology, and Doctor of Philosophy in various fields like Computing, Cybersecurity, Data Analytics, Data Science, Digital Transformation, Education Department, Health Care Management, Liberal Studies, Mechanical Engineering, Nursing, Occupational Therapy, Physician Assistant, Public Administration, Smart Manufacturing, Social Work, Software Engineering, and Supply Chain Management. Contact information for each program is available via email addresses listed. The Master's in Data Science program is a collaborative effort between Computer Science and Engineering, the Department of Statistics, the School of Information, and the Department of Biostatistics, offering balanced training in statistical skills and computational skills. Graduates can identify relevant datasets, apply appropriate tools to answer questions, design analytical procedures, and implement them efficiently over large data sets. The program is administered by the College of LSA, with detailed information available on their website. The university is ranked #1 public university for total research volume, Faculty and researchers are leaders in cutting-edge research, offering Master's degree programs such as Public Health (MPH), Science (MS), and Health Services Administration (MHSA), among others. Licensor doesn't have the right to cancel these freedoms as long as you follow the license rules. To give credit, you need to mention the licensor's name and provide a link to the original license, stating if any changes were made. You're free to do this in any reasonable way, but not in a way that implies the licensor supports your actions or use of their work. If you remix, transform, or build upon someone else's material, you must distribute your own contributions under the same license as the original. Additionally, you cannot add legal terms or technological measures that restrict others from doing things allowed by the license. You don't need to follow the license for public domain elements or if an exception applies. No guarantees are provided, and the license may not grant all necessary permissions for your intended use. Data Science is where Computer and Information Sciences meet Statistical Sciences and Domain Expertise. The first two pillars represent core methodologies, while the third pillar is the application area to which these methods apply. Our program focuses on data science training in these two pillars, with practice applying skills to real-world problems. We categorize required Data Science skills into statistical and computational abilities. To achieve balance, we won't offer sub-plans; instead, students will learn data representation and analysis at an advanced level. MS in Data Science graduates will be able to: identify relevant datasets, apply the right tools for statistical and computational tasks, design and evaluate procedures, implement efficient methods over large data sets in a multi-computer environment, and answer questions from individuals, organizations, or agencies. Prerequisites Our diverse student body comes from various countries and undergraduate majors. While a Data Science major isn't required, applicants should have a background in: 2 semesters of college calculus, 1 semester of linear algebra, and 1 introduction to computing course. Given course requirements for Michigan's graduate students: Graduate students must take the following core courses unless waived through a course review process: 1. MATH/DATASCI 403: Introduction to Discrete Mathematics 2. EECS 402: Programming for Scientists and Engineers 3. EECS 403: Graduate Foundations of Data Structures and Algorithms 4. One of the following courses: - BIOSTATS 601, STATS 510, or STATS 426: Probability and Distribution Theory - MATH/STATS 425: Introduction to Probability 5. One of the following courses: - BIOSTATS 602: Biostatistical Inference - STATS 511: Statistical Inference - One of the following: - EECS 484, CSE 584, or EECS 485: Database Management Systems and Web Systems - DATASCI 507: Data Science Analytics using Python 6. Expertise in Data Management and Manipulation: - One of the following courses: - STATS 413 Applied Regression Analysis - STATS 500 Statistical Learning I - One of the following: - DATASCI 415 Data Mining and Statistical Learning - EECS 545 Machine Learning (CSE) 7. Expertise in Data Science Techniques - One of the following courses: - BIOSTAT 650 Applied Statistics I Linear Regression - STATS 413 Applied Regression Analysis - STATS 500: Statistical Learning I Linear Regression Given article text here 511 (Statistical Inference) | DATASCI 551 (Bayesian Modeling and Computation) Data Analysis BIOSTAT 651 (Generalized Linear Models) | BIOSTAT 653 (Longitudinal Analysis) | BIOSTAT 666 (Statistical Models and Numerical Methods in Human Genetics) | BIOSTAT 675 (Survival Time Analysis) | BIOSTAT 685/STATS 560 (Non-Parametric Statistics) | BIOSTAT 695 (Categorical Data) | BIOSTAT 696 (Spatial Statistics) | ECE 556 (Image Processing) | STATS 414 (Topics in Applied Data Analysis) | STATS 501 (Applied Statistics II) | DATASCI 503 (Statistical Machine Learning) | STATS 509 (Statistics for Financial Data) | STATS 531 (Analysis of Time Series) | STATS 600 (Regression Analysis) | STATS 601 (Advanced Statistical Learning) | STATS 605 (Advanced Topics in Modeling and Data Analysis) | STATS 700 (Topics in Applied Statistics) Computation BIOSTAT 615 (Statistical Computing) | BIOSTATS 625 (Computing with Big Data) | EECS 481 (Software Engineering) | EECS 485 (Web Systems) | EECS 486 (Information Retrieval and Web Search) | EECS 504 (Foundations of Computer Vision) | EECS 542 (Advanced Topics in Computer Vision) | CSE 548/SI 649 (Information Realization) | CSE 549/SI 650 (Information Retrieval) | CSE 572 (Randomness and Computation) | CSE 586 (Design and Analysis of Algorithms) | CSE 587 (Parallel Computing) | CSE 592 (Artificial Intelligence) | CSE 595/SI 561 (Natural Language Processing) | SI 564 (SQL and Databases 1.5 credits) + SI 644 (Advanced SQL and Databases 1.5 credits) | SI 608 (Networks) | SI 618 (Data Manipulation and Analysis) | SI 630 (Natural Language Processing: Algorithms and People) | SI 664 (Database Application Design) | SI 671 (Data Mining: Methods and Applications) | DATASCI 406 (Computational Methods in Statistics and Data Science) | STATS 506 (Computational Methods and Tools in Statistics) | DATASCI 507 (Data Science Analytics using Python) | DATASCI 551 (Bayesian Modeling and Computation) | STATS 606 (Computation and Optimization Methods in Statistics) Graduate program requirements for the Master's degree include achieving a cumulative GPA of B or higher. Participants must take at least twenty-five graduate units, out of which eighteen are required to be advanced-level courses with a grade of B- or higher. Participants can fulfill some pre-core, specialized areas and expertise through approved waiver requests. MATH 403 is equivalent to EECS 203 in the event it was taken before course entry. Frequently asked questions. Also check Rackham Graduate School's requirements for applying, including test submissions and required credentials from non-US institutions.