

PURDUE LINEAR ALGEBRA

PURDUE LINEAR ALGEBRA IS A CRITICAL AREA OF STUDY WITHIN MATHEMATICS AND ENGINEERING, SERVING AS A FOUNDATION FOR VARIOUS APPLICATIONS IN SCIENCE AND TECHNOLOGY. THIS SUBJECT ENCOMPASSES THE PRINCIPLES OF VECTOR SPACES, LINEAR TRANSFORMATIONS, AND MATRIX THEORY, ALL OF WHICH ARE ESSENTIAL FOR UNDERSTANDING MULTIDIMENSIONAL SYSTEMS. AT PURDUE UNIVERSITY, THE LINEAR ALGEBRA CURRICULUM IS DESIGNED TO PROVIDE STUDENTS WITH A ROBUST UNDERSTANDING OF THESE CONCEPTS, PREPARING THEM FOR ADVANCED STUDIES AND PRACTICAL APPLICATIONS IN FIELDS SUCH AS COMPUTER SCIENCE, PHYSICS, AND ENGINEERING. THIS ARTICLE WILL DELVE INTO THE SPECIFICS OF PURDUE'S LINEAR ALGEBRA OFFERINGS, EXPLORING COURSE CONTENT, TEACHING METHODOLOGIES, APPLICATIONS, AND RESOURCES AVAILABLE FOR STUDENTS.

- INTRODUCTION TO PURDUE LINEAR ALGEBRA
- COURSE STRUCTURE AND CONTENT
- TEACHING METHODOLOGIES
- APPLICATIONS OF LINEAR ALGEBRA
- RESOURCES FOR STUDENTS
- CONCLUSION

COURSE STRUCTURE AND CONTENT

PURDUE UNIVERSITY PROVIDES A COMPREHENSIVE CURRICULUM FOR LINEAR ALGEBRA, TYPICALLY OFFERED AT THE UNDERGRADUATE LEVEL. THE COURSE OFTEN COVERS FUNDAMENTAL TOPICS THAT ARE ESSENTIAL FOR STUDENTS IN ENGINEERING, MATHEMATICS, AND RELATED FIELDS. THE CURRICULUM IS STRUCTURED TO INTRODUCE STUDENTS TO BOTH THEORETICAL CONCEPTS AND PRACTICAL APPLICATIONS.

CORE TOPICS COVERED

THE LINEAR ALGEBRA COURSE AT PURDUE TYPICALLY INCLUDES SEVERAL CORE TOPICS THAT ARE CRUCIAL FOR UNDERSTANDING THE SUBJECT. THESE TOPICS INCLUDE:

- VECTORS AND VECTOR SPACES
- LINEAR COMBINATIONS AND SPAN
- LINEAR INDEPENDENCE AND BASIS
- MATRIX OPERATIONS AND PROPERTIES
- DETERMINANTS
- EIGENVALUES AND EIGENVECTORS
- LINEAR TRANSFORMATIONS
- SYSTEMS OF LINEAR EQUATIONS

EACH TOPIC IS DESIGNED TO BUILD UPON THE PREVIOUS ONE, ENSURING THAT STUDENTS DEVELOP A STRONG FOUNDATION IN LINEAR ALGEBRA. FOR INSTANCE, STUDENTS LEARN ABOUT VECTORS AND VECTOR SPACES EARLY ON, WHICH SETS THE STAGE FOR UNDERSTANDING MORE COMPLEX CONCEPTS SUCH AS LINEAR TRANSFORMATIONS AND EIGENVALUES.

ASSESSMENT AND EVALUATION

ASSESSMENT IN PURDUE'S LINEAR ALGEBRA COURSE TYPICALLY INVOLVES A COMBINATION OF HOMEWORK ASSIGNMENTS, QUIZZES, MID-TERM EXAMS, AND A FINAL EXAM. THIS MULTIFACETED APPROACH ENSURES THAT STUDENTS NOT ONLY GRASP THE THEORETICAL ASPECTS OF LINEAR ALGEBRA BUT ALSO DEVELOP PROBLEM-SOLVING SKILLS THROUGH PRACTICAL APPLICATION.

TEACHING METHODOLOGIES

THE TEACHING METHODOLOGIES EMPLOYED IN PURDUE'S LINEAR ALGEBRA COURSES ARE DESIGNED TO ENHANCE STUDENT ENGAGEMENT AND UNDERSTANDING. INSTRUCTORS UTILIZE A VARIETY OF TEACHING TECHNIQUES TO CATER TO DIFFERENT LEARNING STYLES.

LECTURE-BASED LEARNING

LECTURE-BASED LEARNING IS A TRADITIONAL METHOD WHERE INSTRUCTORS PRESENT CORE CONCEPTS AND THEORIES IN A STRUCTURED FORMAT. THIS METHOD ALLOWS FOR THE EFFICIENT DELIVERY OF INFORMATION AND FACILITATES CLASSROOM INTERACTION. LECTURES OFTEN INCLUDE:

- REAL-WORLD EXAMPLES TO ILLUSTRATE CONCEPTS
- INTERACTIVE DISCUSSIONS TO CLARIFY COMPLEX TOPICS
- VISUAL AIDS, SUCH AS GRAPHS AND MATRICES, TO ENHANCE UNDERSTANDING

COLLABORATIVE LEARNING

COLLABORATIVE LEARNING IS EMPHASIZED THROUGH GROUP PROJECTS AND STUDY SESSIONS. STUDENTS WORK TOGETHER TO SOLVE PROBLEMS, WHICH NOT ONLY REINFORCES THEIR UNDERSTANDING BUT ALSO FOSTERS TEAMWORK SKILLS. THIS APPROACH IS PARTICULARLY EFFECTIVE IN MASTERING COMPLEX LINEAR ALGEBRA CONCEPTS.

UTILIZATION OF TECHNOLOGY

PURDUE INCORPORATES TECHNOLOGY INTO THE LEARNING EXPERIENCE THROUGH THE USE OF SOFTWARE TOOLS THAT ASSIST IN VISUALIZING LINEAR ALGEBRA CONCEPTS. PROGRAMS SUCH AS MATLAB OR PYTHON LIBRARIES CAN ENHANCE STUDENTS' ABILITY TO MANIPULATE MATRICES AND VISUALIZE TRANSFORMATIONS, PROVIDING A HANDS-ON LEARNING EXPERIENCE.

APPLICATIONS OF LINEAR ALGEBRA

LINEAR ALGEBRA HAS A WIDE ARRAY OF APPLICATIONS ACROSS VARIOUS DISCIPLINES. UNDERSTANDING THESE APPLICATIONS IS VITAL FOR STUDENTS AS THEY PREPARE FOR CAREERS IN FIELDS THAT UTILIZE THESE MATHEMATICAL PRINCIPLES.

ENGINEERING AND PHYSICS

IN ENGINEERING, LINEAR ALGEBRA IS FUNDAMENTAL FOR ANALYZING SYSTEMS AND STRUCTURES. IT IS USED IN:

- STRUCTURAL ANALYSIS
- CONTROL SYSTEMS
- ELECTRICAL CIRCUITS
- SIGNAL PROCESSING

IN PHYSICS, LINEAR ALGEBRA PLAYS A CRUCIAL ROLE IN QUANTUM MECHANICS AND RELATIVITY, WHERE VECTOR SPACES AND TRANSFORMATIONS ARE ESSENTIAL FOR DESCRIBING PHYSICAL PHENOMENA.

COMPUTER SCIENCE

IN COMPUTER SCIENCE, LINEAR ALGEBRA IS VITAL FOR ALGORITHMS IN MACHINE LEARNING, COMPUTER GRAPHICS, AND DATA ANALYSIS. TECHNIQUES SUCH AS:

- PRINCIPAL COMPONENT ANALYSIS (PCA)
- IMAGE PROCESSING
- NEURAL NETWORKS

RELY HEAVILY ON THE PRINCIPLES OF LINEAR ALGEBRA TO MANIPULATE AND ANALYZE DATA EFFICIENTLY.

ECONOMICS AND SOCIAL SCIENCES

LINEAR ALGEBRA IS ALSO UTILIZED IN ECONOMICS FOR MODELING AND SOLVING SYSTEMS OF EQUATIONS THAT REPRESENT ECONOMIC THEORIES AND SYSTEMS. IT AIDS IN:

- OPTIMIZING RESOURCE ALLOCATION
- ANALYZING MARKET EQUILIBRIUM
- UNDERSTANDING GAME THEORY

IN SOCIAL SCIENCES, LINEAR MODELS ARE OFTEN EMPLOYED TO STUDY RELATIONSHIPS BETWEEN VARIABLES, MAKING LINEAR ALGEBRA AN ESSENTIAL TOOL IN RESEARCH.

RESOURCES FOR STUDENTS

PURDUE UNIVERSITY OFFERS A WEALTH OF RESOURCES DESIGNED TO SUPPORT STUDENTS IN THEIR STUDY OF LINEAR ALGEBRA. THESE RESOURCES ARE VITAL FOR REINFORCING CLASSROOM LEARNING AND PROVIDING ADDITIONAL ASSISTANCE.

TEXTBOOKS AND ONLINE MATERIALS

THE COURSE TYPICALLY RECOMMENDS SPECIFIC TEXTBOOKS THAT COVER THE REQUIRED MATERIAL IN DEPTH. ADDITIONALLY, ONLINE RESOURCES, SUCH AS VIDEO LECTURES AND INTERACTIVE TUTORIALS, ARE AVAILABLE TO SUPPLEMENT LEARNING.

STUDY GROUPS AND TUTORING SERVICES

STUDENTS ARE ENCOURAGED TO FORM STUDY GROUPS TO COLLABORATE ON PROBLEM-SOLVING AND UNDERSTANDING COMPLEX CONCEPTS. PURDUE ALSO OFFERS TUTORING SERVICES WHERE STUDENTS CAN RECEIVE PERSONALIZED ASSISTANCE FROM PEERS OR TEACHING ASSISTANTS.

WORKSHOPS AND SEMINARS

WORKSHOPS AND SEMINARS ON ADVANCED TOPICS IN LINEAR ALGEBRA ARE OFTEN ORGANIZED, ALLOWING STUDENTS TO EXPLORE AREAS OF INTEREST IN GREATER DEPTH. THESE SESSIONS CAN PROVIDE INSIGHTS INTO REAL-WORLD APPLICATIONS AND EMERGING RESEARCH IN THE FIELD.

CONCLUSION

UNDERSTANDING **PURDUE LINEAR ALGEBRA** IS CRUCIAL FOR STUDENTS PURSUING CAREERS IN VARIOUS DISCIPLINES, INCLUDING ENGINEERING, COMPUTER SCIENCE, AND SOCIAL SCIENCES. THE STRUCTURED CURRICULUM, INNOVATIVE TEACHING METHODOLOGIES, AND EXTENSIVE RESOURCES AVAILABLE AT PURDUE ENSURE THAT STUDENTS ARE WELL-EQUIPPED TO TACKLE BOTH THEORETICAL AND PRACTICAL CHALLENGES IN LINEAR ALGEBRA. BY MASTERING THESE CONCEPTS, STUDENTS CAN APPLY THEIR KNOWLEDGE TO SOLVE REAL-WORLD PROBLEMS AND ADVANCE THEIR ACADEMIC AND PROFESSIONAL CAREERS.

Q: WHAT ARE THE PREREQUISITES FOR TAKING LINEAR ALGEBRA AT PURDUE?

A: STUDENTS TYPICALLY NEED A SOLID FOUNDATION IN CALCULUS AND BASIC ALGEBRA. SPECIFIC COURSE REQUIREMENTS MAY VARY, SO IT'S ADVISABLE TO CHECK WITH THE DEPARTMENT FOR THE LATEST PREREQUISITES.

Q: HOW DOES LINEAR ALGEBRA RELATE TO OTHER AREAS OF MATHEMATICS?

A: LINEAR ALGEBRA IS CLOSELY RELATED TO FIELDS SUCH AS CALCULUS, DIFFERENTIAL EQUATIONS, AND NUMERICAL ANALYSIS. IT PROVIDES TOOLS FOR UNDERSTANDING MULTIDIMENSIONAL SPACES, WHICH ARE ESSENTIAL IN THESE AREAS.

Q: ARE THERE ANY ONLINE RESOURCES AVAILABLE FOR STUDYING LINEAR ALGEBRA?

A: YES, THERE ARE NUMEROUS ONLINE PLATFORMS OFFERING COURSES, TUTORIALS, AND VIDEOS ON LINEAR ALGEBRA. WEBSITES LIKE KHAN ACADEMY, COURSERA, AND MIT OPENCOURSEWARE PROVIDE VALUABLE MATERIALS.

Q: WHAT CAREER PATHS UTILIZE KNOWLEDGE OF LINEAR ALGEBRA?

A: CAREERS IN ENGINEERING, DATA SCIENCE, FINANCE, COMPUTER SCIENCE, AND RESEARCH HEAVILY RELY ON LINEAR ALGEBRA. PROFESSIONALS IN THESE FIELDS APPLY LINEAR ALGEBRA CONCEPTS TO SOLVE COMPLEX PROBLEMS.

Q: CAN LINEAR ALGEBRA BE APPLIED IN MACHINE LEARNING?

A: ABSOLUTELY! LINEAR ALGEBRA IS FUNDAMENTAL IN MACHINE LEARNING ALGORITHMS, PARTICULARLY IN AREAS SUCH AS NEURAL NETWORKS, DATA TRANSFORMATIONS, AND DIMENSIONALITY REDUCTION TECHNIQUES.

Q: HOW IMPORTANT IS LINEAR ALGEBRA FOR ENGINEERING STUDENTS?

A: LINEAR ALGEBRA IS EXTREMELY IMPORTANT FOR ENGINEERING STUDENTS. IT IS USED IN NUMEROUS ENGINEERING DISCIPLINES, INCLUDING ELECTRICAL, MECHANICAL, AND CIVIL ENGINEERING, FOR MODELING AND ANALYSIS.

Q: WHAT TYPES OF SOFTWARE ARE COMMONLY USED IN LINEAR ALGEBRA COURSES?

A: SOFTWARE SUCH AS MATLAB, R, AND PYTHON (WITH LIBRARIES LIKE NUMPY) ARE COMMONLY USED IN LINEAR ALGEBRA COURSES TO PERFORM COMPUTATIONS AND VISUALIZE CONCEPTS.

Q: ARE THERE ANY SPECIFIC TEXTBOOKS RECOMMENDED FOR PURDUE'S LINEAR ALGEBRA COURSE?

A: SPECIFIC TEXTBOOKS MAY VARY BY COURSE, BUT POPULAR CHOICES OFTEN INCLUDE "LINEAR ALGEBRA AND ITS APPLICATIONS" BY DAVID C. LAY AND "INTRODUCTION TO LINEAR ALGEBRA" BY GILBERT STRANG.

Q: HOW CAN STUDENTS EFFECTIVELY PREPARE FOR LINEAR ALGEBRA EXAMS?

A: STUDENTS SHOULD REGULARLY REVIEW THEIR NOTES, PRACTICE PROBLEMS, FORM STUDY GROUPS, AND UTILIZE TUTORING SERVICES IF NEEDED. CONSISTENT PRACTICE AND UNDERSTANDING OF CORE CONCEPTS ARE KEY TO SUCCESS.

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purdue linear algebra: **101 Careers in Mathematics** Andrew Sterrett, 2014-12-31 This third edition of the immensely popular 101 Careers in Mathematics contains updates on the career paths of individuals profiled in the first and second editions, along with many new profiles. No career counselor should be without this valuable resource. The [Author];s of the essays in this volume describe a wide variety of careers for which a background in the mathematical sciences is useful. Each of the jobs presented shows real people in real jobs. Their individual histories demonstrate how the study of mathematics was useful in landing well-paying jobs in predictable places such as IBM, AT & T, and American Airlines, and in surprising places such as FedEx Corporation, L.L. Bean, and Perdue Farms, Inc. You will also learn about job opportunities in the Federal Government as well as exciting careers in the arts, sculpture, music, and television. There are really no limits to what you can do if you are well prepared in mathematics. The degrees earned by the [Author];s profiled here range from bachelor's to master's to PhD in approximately equal numbers. Most of the writers use the mathematical sciences on a daily basis in their work. Others rely on the general problem-solving skills acquired in mathematics as they deal with complex issues.

purdue linear algebra: MAA Notes , 1983

purdue linear algebra: **Linear Systems and Control** Martin J. Corless, Art Frazho, 2003-03-27 Based largely on state space models, this text/reference utilizes fundamental linear algebra and operator techniques to develop classical and modern results in linear systems analysis and control design. It presents stability and performance results for linear systems, provides a geometric perspective on controllability and observability, and develops state space realizations of transfer functions. It also studies stabilizability and detectability, constructs state feedback controllers and asymptotic state estimators, covers the linear quadratic regulator problem in detail, introduces H-infinity control, and presents results on Hamiltonian matrices and Riccati equations.

purdue linear algebra: **Monographic Series** Library of Congress, 1976

purdue linear algebra: **Some Experiments with a Basic Linear Algebra Routine on Distributed Memory Parallel Systems** Purdue University. Dept. of Computer Sciences, H. Byun, E. N. Houstis, E. A. Vavalis, 1993 Abstract: In this paper we describe the algorithm used, discuss the implementation and present the performance of the Basic Linear Algebra Subroutine (BLAS) sgemv for distributed-memory multiprocessors. The basic assumption is that the matrix and the vectors are row distributed among processors. Performance data from nCUBE II, iPSC/860 and iPSC DELTA machines are presented.

purdue linear algebra: **Research in Computational Molecular Biology** Jian Ma, 2024-05-16 This book constitutes the proceedings of the 28th Annual International Conference on Research in Computational Molecular Biology, RECOMB 2024, held in Cambridge, MA, USA, during April 29-May 2, 2024. The 57 full papers included in this book were carefully reviewed and selected from 352 submissions. They were organized in topical sections as follows: theoretical and foundational algorithm contributions and more applied directions that engage with new technologies and intriguing biological questions.

purdue linear algebra: **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society, 1995

purdue linear algebra: **High Performance Algorithms and Software in Nonlinear Optimization** Renato de Leone, Almerico Murli, Panos M. Pardalos, Gerardo Toraldo, 2013-12-01 This book contains a selection of papers presented at the conference on High Performance Software for Nonlinear Optimization (HPSN097) which was held in Ischia, Italy, in June 1997. The rapid progress of computer technologies, including new parallel architectures, has stimulated a large

amount of research devoted to building software environments and defining algorithms able to fully exploit this new computational power. In some sense, numerical analysis has to conform itself to the new tools. The impact of parallel computing in nonlinear optimization, which had a slow start at the beginning, seems now to increase at a fast rate, and it is reasonable to expect an even greater acceleration in the future. As with the first HPSNO conference, the goal of the HPSN097 conference was to supply a broad overview of the more recent developments and trends in nonlinear optimization, emphasizing the algorithmic and high performance software aspects. Bringing together new computational methodologies with theoretical advances and new computer technologies is an exciting challenge that involves all scientists willing to develop high performance numerical software. This book contains several important contributions from different and complementary standpoints. Obviously, the articles in the book do not cover all the areas of the conference topic or all the most recent developments, because of the large number of new theoretical and computational ideas of the last few years.

purdue linear algebra: Scientific and Technical Aerospace Reports , 1991

purdue linear algebra: *Encyclopedia of Parallel Computing* David Padua, 2014-07-08

Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benchmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing

purdue linear algebra: Beyond Provincialism Mahmoud Suleiman, Tonya Huber, 2022-08-01

International Education Inquiries is a book series dedicated to realizing the global vision of Education 2030. This vision involves "ensuring inclusive and equitable quality education and promoting lifelong learning opportunities for all." The founding editors seek to provide a forum for the diverse voices of scholars and practitioners from across the globe, asking questions about transforming the vision of Education 2030 into a reality. Published chapters will reflect a variety of formats, free of methodological restrictions, involving disciplinary as well as interdisciplinary inquiries. We expect the series will be a leading forum for pioneers redefining the global discussion about the people, places, and perspectives shaping Education 2030 outcomes. ENDORSEMENTS: The educational impact of the COVID-19 pandemic has created the most serious crisis in the history of public education. Addressing this crisis effectively will require efforts aligned with an inclusive and sustainable vision of development, such as articulated by the UN Education 2030 and the Sustainable Development Goals. To build back better educators need to guide their practice by knowledge that is local as well as global, in ways that help their students understand those

interdependencies. Beyond Provincialism is an invitation to such an exploration. In this edited volume, Professors Mahmoud Suleiman and Tonya Huber and their colleagues take the reader on a journey that illuminates the impact of hunger among college students in America, how the SDGs can help turnaround high poverty schools, the role of curriculum to promote cross-national collaboration, and how math and science instruction, as well as study abroad, can help students develop procedural and conceptual knowledge that makes visible the relevance of what they learn to the world around them and the impact of the pandemic on teacher preparation in Palestine. The kaleidoscope of insights offered by this book will expand the global awareness and understanding of education as a global activity. A timely and useful resource for teachers and teacher educators that will contribute to advance a transformational education that helps us build back better from the devastation created by the pandemic. — Fernando M. Reimers, Harvard Graduate School of Education Suleiman and Huber convene a dynamic group of scholars committed to transforming our schools. Using the latest theories and methodological approaches, Beyond Provincialism offers crucial frameworks to understand teaching and learning in a global perspective. This groundbreaking volume wholeheartedly embraces the Sustainable Development Goals (SDGs) and calls upon all of us to simultaneously dismantle systemic inequality and promote equity and social justice in pre-K-20 schools across nations and their institutions. It's simply a must-read book, especially for practitioners, educators, reformers, researchers, and policy-makers who seek to internationalize education and take it beyond its cursory provincial goals. — Gilberto Q. Conchas, Wayne K. and Anita Woolfolk Hoy, Pennsylvania State University At a time when proponents of diversity, equity and inclusion are under attack, it is valuable to examine Beyond Provincialism to see how far we still need to go to reform schools and invest in teacher, educator and leader preparation. Grounded in solid frameworks, this timely and informative book astutely provides insights from forceful practitioners, scholars, and researchers whose fascinating experiences and models have practical implications for promoting global multicultural competencies needed to combat racist mindsets and provincial outlooks. Based on Education 2030 vision, the book provides a thoughtful blueprint for integrating international and global dimensions in teacher and educator preparation. — Ken Magdaleno, Center for Leadership, Equity, and Research (CLEAR)

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purdue linear algebra: Conflict in History, Measuring Symmetry, Thermodynamic Modeling and Other Work Dennis Glenn Collins, 2011-11-23 This book should revolutionize the study of history, symmetry and economic modeling. History is dominated by one pattern, over different scales; symmetry is based on counting the number of pairs of equal distances; and social-science extends from Josiah Willard Gibbs' thermodynamic models.

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Demand for Purdue education breaks record across - Purdue Purdue received 86,953 applications for its incoming fall 2025 undergraduate class — the 14th consecutive year of record applications

Purdue football game vs USC lightning delay, stadium - IndyStar Purdue announced an expected adjusted kickoff time of 6:45 p.m., with gates to Ross-Ade reopening at 6:15. CBS is broadcasting the game, which was originally scheduled to

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