EDUCATIONAL ADMINISTRATION

Department of Educational Administration
College of Education

315. Student Leadership Training
Fall, Spring. 3(2-2)
Student leadership role, skills, and technique, consistent with the principles and demands of a democratic multicultural society.

451. Models of Special Education Administration and Services
Spring. 3 credits. Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Counseling, Educational Psychology and Special Education. R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities or to master's students in the Special Education major.

Application of theory and research to special education program design and implementation.
SA: CEP 851

860. Organization Theory in Education
Fall, Spring, Summer. 3(3-0)
Organizational theory and research applied to educational administration. Topics include comparative organizational settings, external environments, organizational effectiveness, and ethics.

861. Leadership and Organizational Development
Spring, Summer. 3(3-0)
Interaction of leadership with organizational culture and development within a variety of educational organizations.

862. Staff and Professional Development
Spring. 3(3-0)
Staff and professional development interventions in educational organizations.

863. Planning, Budgeting, and Evaluation
Spring, Summer of even-numbered years. 3(0-4)
Planning, budgeting, and evaluation in educational organizations. Topics include needs assessment, funding sources, and processes for estimating costs and revenues.

864. Administration of Human Resources in Education
Fall, Summer. 3(3-3)
Tasks of personnel management in schools, colleges, and other educational organizations, including recruitment, selection, orientation, development, compensation, and evaluations. Focus on attracting and retaining a quality workforce in education.

813. Education, Development and Social Change
Spring of odd-numbered years. 3(3-0) Interdepartmental with Teacher Education.
Rise of modern systems of education in developed and developing countries. Education, the state, and national development. Colonial heritage, linkages, and globalization of educational development.

552A. Elementary and Middle School Administration
Fall, Summer. 3(3-0)

Educational Administration — Descriptions of Courses

852B. Secondary School Administration
Fall, Summer. 3(3-0)

853A. Legal, Fiscal, and Policy Environment of Schools
Fall, Summer. 3(3-0)

857D. Schools, Families, and Communities
Fall, Summer of odd-numbered years. 3(3-0)
Comparative and historical analysis of education within the broader social context. Families, communities, and the private sector. Social problems, social policies, and school practice.

853C. Instructional Supervision
Spring, Summer. 3(3-0)
P: EAD 800.
Supervision and evaluation of teaching and learning, and strategies for improvement of K-12 education.

855. Research in Educational Administration
Fall, Spring. 3(3-0) P: CEP 822, EAD 800.
Applications of research techniques to educational organizations. Developing research proposals, conducting research, and writing formal papers.

858. Special Education Law
Fall of even-numbered years. 5 credits. Interdepartmental with Counseling, Educational Psychology and Special Education. R: Open only to seniors or graduate students.
Analysis of State and Federal regulations, guidelines and court decisions related to special education and examination of their impact.

880. The Concept of the Learning Society
Fall, Summer. 3(3-0)
Lifelong education in the United States and other countries. Origins, forms, purposes, sponsors, content, and theory.

881A. Adult Learning
Fall, Summer. 3(3-0) P: EAD 860.
Adult development and life transitions. Motivation and barriers to participation. Theories of adult learning.

881B. Strategies for Teaching Adults
Spring. 3(3-0) P: EAD 861A.
Assessing program goals, setting expectations, developing resources, choosing strategies, and evaluating outcomes.

881C. Literacy in the Community and Workplace
Spring of odd-numbered years. 3(3-0)
Psychological, sociological, economic and political implications of illiteracy. Literacy campaigns and specific approaches to reducing illiteracy. Workforce literacy programs and techniques in schools, business, industry and labor.

882A. Training in Industry
Fall. 3(3-0) P: EAD 860.
Factors influencing the development of education and training in business and industry. Relevance of training and development models to adult educators.
984. Laboratory and Field Experiences
Fall, Spring, Summer, 1 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. Supervised field experiences or field experiences in educational administration and in higher, adult, and lifelong education.

985. Research Ethics
P: EAD 874B. R: Open only to master's students in Student Affairs Administration. Approval of department. Supervised field experiences in this course.

986. Master's Thesis Research
Fall, Spring, Summer, 1 to 9 credits. A student may earn a maximum of 15 credits in all enrollments for this course.

987. Policy and Practice in Education
Fall of odd-numbered years, 3(3-0) Multiple conceptions of the relationship between policy and practice in K-12 education.
SA: EAD 944

988. Qualitative Methods in Educational Research
Fall, 4(4-0) Interdisciplinary with Teacher Education, and Counseling. Educational Psychology and Special Education. Administration by Teacher Education.
P: EAD 874A. R: Open only to doctoral students. Approval of department. Multiple traditions of qualitative research in education, including theory, research questions and design, data collection and analysis, and reporting. Ethical issues. Approaching qualitative research.

989. Organizational Analysis of K-12 Schooling
Fall, Spring, Summer. 3(3-0) P: EAD 800. Theoretical perspectives on schools as organizations. Relationship of organization theory to administrative practice.

990. Administrative Behavior in Educational Organizations
Spring, 3(3-0) P: EAD 800. Concepts and models of leadership, management, and organizations as they apply to the administration of educational institutions.

991. Economic Analysis in Educational Policy Making
Spring of even-numbered years, 3(3-0) Interdepartmental with Teacher Education. Economic effects of education. Economic analysis of policies in education. Alternative theoretical perspectives. Applications to the United States and other countries.
963. Leadership in Postsecondary Education
Spring of even-numbered years. 3(3-0)
P: EAD 300.
Leadership as a complex social phenomenon in higher, adult, and lifelong educational settings. Theories of leadership as applied to education. Educational management and organization. Leadership diversity.

964. Women's Education and Professional Development
Fall of even-numbered years. 3(3-0)
Gateways and barriers to women's achievement in education and their careers.

965. Diversity and Equity in Postsecondary Education
Fall of even-numbered years. 3(3-0)
Promise, challenge, and management of diversity and equity in higher education. Analysis of data and policy. Management responses and strategies.

967. Policy Challenges in Postsecondary Education
Spring of even-numbered years. 3(3-0)
P: EAD 353.
Classic and contemporary policy issues such as access, finance, excellence, and purpose. Structures for policymaking. Agencies at federal, state, and local levels.

970A. Administration and Governance of Higher Education
Spring of odd-numbered years. 5(5-0)
P: EAD 300.
Principles and patterns of organization and governance characteristic of colleges and universities. Administrative, trustee, faculty, and student roles.

970B. The Community College
Spring of odd-numbered years. 3(3-0)
History, philosophy, organization, and role of the community college in higher education. Emphasis on programs and services in comprehensive public community colleges.

971A. Institutional Research and Improvement
Fall of odd-numbered years. 3(3-0)
R: Open only to graduate students in College of Education.
Tools and methods used to conduct analyses of institutional management and policy issues.

971B. Planning, Evaluation, and Decision Making in Post-secondary Education
Spring of odd-numbered years. 3(3-0)
Analysis of planning, evaluation, and decision making in the leadership and management of post-secondary institutions. Integration of program, personnel, facility, and enrollment planning related to factors such as budgeting and accreditation.

971C. Higher Education Finance
Spring of even-numbered years. 3(3-0)
Revenue sources of institutions of higher education. Restrictions and conditions placed upon funds. Administrative structures used to obtain and manage funds.

971D. Institutional Advancement in Higher Education
Fall of odd-numbered years. 3(3-0)
Issues and strategies affecting institutional development. Governmental relations, admissions, alumni relations, and general administration.

990. Independent Study
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course.
Advanced individual study in an area of K-12 administration or higher, adult, and lifelong education.

991A. Special Topics in K-12 Administration
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

991B. Special Topics in Higher, Adult, and Lifelong Education
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

994. Laboratory and Field Experience in Educational Administration
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to doctoral students. Supervised advanced graduate practica, observations, internships, or externships in K-12 administration and in higher, adult, and lifelong education.

995. Research Practicum in Educational Administration
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
R: Open only to doctoral students. Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

996. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course.
R: Open only to Ph.D. students.

ELECTRICAL ENGINEERING

Department of Electrical Engineering
College of Engineering

290. Electric Circuits
Fall, Spring. 4(4-0)
P: CFS 101 or CFS 151 or CFS 230; MTH 224. C MTH 225 concurrently. R: Open only to majors in College of Engineering.

302. Electronic Circuits
Fall, Spring. 3(3-0)

303. Electromagnetics Laboratory
Fall, Spring. 1 credit.
P: EE 200, EE 302 or concurrently. R: Open only to majors in Electrical Engineering, Computer Engineering, and Computer Science. Electronic test equipment and measurement fundamentals. Experimental verification of topics covered in EE 200 and EE 302.

305. Electromagnetic Fields and Waves I
Fall, Spring. 3(3-0)
P: MTH 235, PHY 184. R: Open only to Electrical Engineering, and Computer Engineering majors.

306. Electromagnetic Fields and Waves II
Spring, Summer. 3(3-0)
P: EE 305. R: Open only to Electrical Engineering and Computer Engineering majors.

307. Electromagnetic Fields and Waves Laboratory
Spring, Summer. 1 credit.
P: EE 306 or concurrently. R: Open only to juniors or seniors or graduate students in the Electrical Engineering or Computer Engineering major.
Experimental investigation of topics in electromagnetic fields and waves. Experimental verification of material in EE 305.

320. Energy Conversion and Power Electronics
Fall, Spring, Summer. 3(3-0)
P: EE 305, EE 303. R: Open only to juniors or seniors or graduate students in the Electrical Engineering or Computer Engineering major.

330. Digital Logic Fundamentals
Fall, Spring, Summer. 3(3-0)
P: CFS 101 or CFS 151 or CFS 230. R: Open only to College of Engineering majors.

331. Microprocessors and Digital Systems
Fall, Spring. 3(3-0)
P: EE 330. C: EE 332 concurrently. R: Open only to juniors or seniors or graduate students in the Electrical Engineering or Computer Engineering major. Not open to students with credit in CFS 320.

332. Microprocessors and Digital Systems Laboratory
Fall, Spring. 1 credit.
P: EE 330 C: EE 332 concurrently. R: Open only to juniors or seniors or graduate students in the Electrical Engineering or Computer Engineering major. Not open to students with credit in CFS 320.
A projects laboratory in a digital-logic design and microprocessor-based systems.