
Humanities

Interdisciplinary Master's Program

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CORE FACULTY

Humanities

Professors: Dellheim, Kugelmass;

Associate Professor: Privateer;

Assistant Professors: Baker, Ballew, Lopez-Lazaro, Lund,
Romeyn, Wright

Languages and Literatures

Professor: Foster

AFFILIATED FACULTY

Anthropology

Professor: Bahr

Architecture

Regents' Professor: Cook;

Professor: Boyle;

Associate Professor: Krolloff

Art

Professor: Codell;

Assistant Professor: Wolfthal

Communication

Associate Professor: Nakayama

Dance

Assistant Professor: Jackson

English

Professors: Bjork, Brink;

Associate Professors: Castle, Horan, Sensibar

History

Professors: Fuchs, Iverson, Simpson, Stowe, Tillman;

Associate Professor: Rush

Languages and Literatures

Professors: Losse, Volek;

Associate Professor: Williams;

Assistant Professor: Vitullo

Philosophy

Professor: White

Planning and Landscape Architecture

Assistant Professors: Ewan, Fish-Ewan

Religious Studies

Professor: Foard;

Associate Professors: Coudert, Gereboff

The Graduate Committee on Humanities offers an interdisciplinary program leading to the M.A. degree in Humanities. One of the unique features of this interdisciplinary program is that, because it uses faculty research/teaching interests from a number of academic units, a student may tailor a course of study to fit individual needs and goals. The

committee is composed of members from several departments, as shown in the faculty list at the beginning of this section. At the same time, the individualized program is balanced by a required core of several courses emphasizing interdisciplinary methodology and theory. Faculty and courses are not limited, however, to the departments and schools listed, since it is understood that many fields may be approached from a humanistic perspective.

MASTER OF ARTS

Among the small number of humanities M.A. programs in the U.S., the ASU program stands out in terms of its substance and breadth. The core of the curriculum, a sequence of three required courses, provides students with an introduction to an extremely wide range of classical and contemporary cultural theory. At the same time, the large number of elective classes at their disposal permits students to fashion a specialized field for themselves, typically combining work in two or more of the traditional humanities disciplines. The thesis—the capstone of the requirements for the degree—gives students the opportunity to make an original and substantial contribution to scholarship in their chosen field. This combination—a solid grounding in cultural theory, interdisciplinary specialization, and advanced research and writing—makes this M.A. program unique among its peers.

Admission. Students who fulfill the general requirements of the Graduate College and who have a B.A. in any of the humanities disciplines listed by the National Endowment for the Humanities are invited to apply. This invitation, however, does not preclude students who have bachelor's degrees in the social and natural sciences. In addition to meeting Graduate College requirements, students must submit Graduate Record Examination scores; three letters of academic recommendation; and a brief letter of intent, outlining their academic career to date and suggesting plans for the future, at ASU and beyond. Prospective students should apply by March 1 for admission into the program the following fall. Students whose applications are complete by the March 1 deadline will be notified of their admission status by April 15. Qualified students applying after March 1 will be admitted depending on the availability of space.

Program of Study. M.A. students must complete a minimum of 30 hours of course work, including six hours of thesis preparation. In most cases, this involves a two-year program of study, focused on the following requirements:

Core Courses. Students take a sequence of three core courses, one in each of their first three semesters. Contact an advisor for details.

Area of Study. Beyond the core courses, students use their remaining electives to develop a specific area of study, whose ultimate expression is the thesis, but which is also grounded in course work. The areas of study sponsored by the faculty include, but are not limited to, American studies; art and society; comparative literatures and cultures; film and media studies; gender and sexuality; intellectual history and philosophy; Jewish studies; performance studies; post-colonial studies; science, technology, and culture.

Foreign Language Exam. M.A. students are required to pass a foreign language reading examination, typically at some point during their first three semesters.

Master's Thesis. The centerpiece of the master's degree is a written thesis that makes an original and substantial contribution to scholarship in the humanities. Most students are expected to work toward a thesis proposal and the formation of a thesis committee (consisting of a chair drawn from the Humanities faculty and two other members) during their first two semesters; to finalize their committee and receive its approval of their proposal in their third semester; and to complete the thesis in the fourth semester. A final oral defense of the thesis is required.

RESEARCH ACTIVITY

A sample of recent thesis topics includes the following: *The Enigma of Nikola Tesla: A Cultural Studies Analysis of His Legacy*; *Hot and Cold Media with New Messages: A Review and a Revision of (Herbert) Marshall McLuhan*; *The Boy's Room Revisited: Masculinities in Pulp Fiction*; "I Am Marlene-Marlene Is Me": *Marlene Dietrich as Model for Social Empowerment*; *Anthropological Field Rites: Uncovering the Ethnographic Self in Feminist Self-Ethnography*; *Unreality As Condition of Life: A Postmodern View on Andrei Bitov's Pushkin House*; *The Four-Seven Debate between Yi T'oegye and Ki Kobong*; *The Study of an Epidemic: Science, Society, and the (Re)Presentation of AIDS*; *Reading Space: A Question of Resistance*; *Social Peace, Unconstrained Consent, Social Justice, and the So-Called Liberal Tradition*; *Getting Around the Body: The Matter of Race and Gender in Faulkner's Light in August*; *Healing Patterns in Three Ethnic American Novels*; *Sorcery in Colonial Peru: The Cases Held by the Spanish Inquisition at the Tribunal of Lima*; *The Problem of the Artist in the South: William Faulkner's Resistance to Southern Colonization*; *Red Scares and Witch Hunts: Unlikely American Heroes and Identities in Angels in America*; *Imperial Propaganda and Architecture on Coins 27 B.C.–A.D. 180: Edited for Exhibition*.

Faculty Research Interests. Social and intellectual history; British history; the Enlightenment; media studies; cultural studies; Latin America; queer theory; gender studies; subaltern studies; ideological approaches to literature; comparative literature; postcolonial studies; Chinese culture; East European and American Jews; Israel; urban studies; humor; technology and culture; intercultural perceptions; colonial Latin American identity construction; law and society in European and modern periods; narratives of European colonialism/exploitation; American studies; science and the humanities; Southeast Asian art history; critical theory; cultural anthropology; culture and organizational theory.

HUMANITIES (HUM)

HUM 420 Interpreting Latin America. (3) S
Introduction to protocols and methodologies for cultural interpretation of Latin America, with emphasis on four principal cities as cultural space. *General Studies: HU, G, H.*

HUM 440 Los Angeles and Cultural Theory. (3) S
Analysis of representations of Los Angeles in literary, film, and musical texts and broader implications for contemporary American society. *General Studies: L1/HU, C.*

HUM 450 Technology and Culture. (3) S
Explores sociocultural, ideological, postmodern implications of technology and the role technology plays in social constructions as well as the spaces it creates. Seminar discussion. *General Studies: L1/HU.*

HUM 460 Postmodern Culture and Interpretation. (3) N
Currents and interpretations of postmodern culture; international, comparative perspective on the culture and traditions of contemporary "Europes" and "Americas." Seminar discussion. *General Studies: L2.*

HUM 462 Psychoanalysis and Culture. (3) F
Introduction to intellectual history of psychoanalytic movement of twentieth century and its contribution to humanities disciplines. *General Studies: L2/HU/SB.*

HUM 465 Narrative in the Human Sciences. (3) F
Theories of narrative and narrativity in the Humanities, concentrating on the problems of specific disciplines and interdisciplinary solutions. *General Studies: L2/HU.*

HUM 511 Structures of Knowledge. (3) F
Theories and examples of structures of knowledge, including such topics as metaphor, semiotics, and knowledge of the "other."

HUM 512 Writing Cultures. (3) S
Theories and methods of representing Western and non-Western cultures in literature, history, ethnography, and pictorial media.

HUM 513 Interpretation of Cultures. (3) A
Methodologies and comparative theories for the study of relationships between various aspects of culture, the history of ideas, and the arts. May be repeated for a total of 6 semester hours, when topics vary.

HUM 549 Contemporary Critical Theory. (3) A
An advanced survey of major schools of 20th-century literary and critical theory. Lecture, discussion. Cross-listed as ENG 502. Credit is allowed for only ENG 502 or HUM 549.

HUM 591 Seminar. (3) A
Topics include:

- (a) Comedy: Meaning and Form
- (b) Theory and Culture
- (c) Tragedy: Meaning and Form

HUM 598 ST: Special Topics in the Humanities. (3) N

Open to all students. Topics include:

- (a) American Fine Arts
- (b) Comparative Fine and Performing Arts
- (c) Cultures of Ethnic Minorities
- (d) Non-Western Cultures
- (e) Western Historical or Contemporary Cultures

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

Industrial Engineering

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PROFESSORS

BAILEY, DOOLEY, HENDERSON, HOGG, HUBELE, KEATS, MONTGOMERY, SMITH, UTTAL, WOLFE

ASSOCIATE PROFESSORS

ANDERSON-ROWLAND, COCHRAN, MacKULAK, MOOR, ROBERTS, ROLLIER, RUNGER, SHUNK, VILLALOBOS, YE

ASSISTANT PROFESSORS

CARLYLE, FOWLER, MOU

The faculty in the Department of Industrial and Management Systems Engineering offer graduate programs leading to the M.S., the Master of Science in Engineering, and the Ph.D. degrees in Industrial Engineering.

The overall educational objective of graduate study in industrial engineering is to improve each student's ability to understand, analyze, and resolve problems within complex

organizations. Industrial engineers must develop qualitative and quantitative abilities to assist management in such diverse organizations as banks, government, hospitals, military, and manufacturing operations.

It is required that all students applying for one of the master's or doctoral degree programs submit scores (verbal, quantitative, analytical) on the Graduate Record Examination, a statement of purpose, and three letters of recommendation.

MASTER OF SCIENCE

See "Master's Degrees," page 98, for general requirements.

MASTER OF SCIENCE IN ENGINEERING

Students applying for the program leading to the Master of Science in Engineering degree in Industrial Engineering may have a baccalaureate degree in a major or field other than industrial engineering, although engineering, mathematics, or science is recommended. The student's qualifications are reviewed by the faculty.

A dual degree is available. It is designed to enable qualified graduate students to pursue the Master of Science in Engineering (M.S.E.) at ASU and a Master of International Management of Technology (M.I.M.O.T.) at the American Graduate School of International Management (Thunderbird). Thunderbird is an internationally recognized private graduate school located in the Phoenix metropolitan area, offering course work in international studies, modern languages, and world business. Details are available from the departmental office.

See "Master of Science in Engineering," page 186, for more information on the Master of Science in Engineering degree.

DOCTOR OF PHILOSOPHY

The Ph.D. degree in Industrial Engineering is conferred upon evidence of excellence in research that culminates in a dissertation representing a significant contribution to the field of industrial engineering.

See "Doctor of Philosophy," page 101, for general requirements.

Program of Study. The program of study should be developed early in the second semester of Ph.D. study or when the student has completed nine semester hours of courses at ASU. Specific requirements may be obtained from the department.

Early Evaluation. Early in the second regular semester in residence, the student's program of study and academic accomplishment to date serve as a basis for evaluation by the supervisory committee. The results of this evaluation are used to assist the student in improving or modifying the program of study, to encourage the continuance of Ph.D. studies or, if necessary, to discourage the student from continuing in the program.

Foreign Language Requirements. None.

Comprehensive Examinations. When the Ph.D. student has essentially completed the course work in the approved program of study and submitted a research proposal to the advisory committee, the student is given a written compre-

hensive examination relating to the research area. The written examination is followed by an oral exam.

Dissertation Committee. Upon successful completion of the comprehensive examinations, the student is admitted to candidacy. At this time a dissertation committee is selected to assist in and evaluate the research project and dissertation.

Dissertation Requirements. A dissertation based on original work demonstrating creativity in research and scholarly proficiency in the subject area is required.

Final Examinations. A final oral examination in defense of the dissertation is required.

RESEARCH ACTIVITY

The Industrial and Management Systems Engineering faculty are involved in a wide variety of research projects. Current research includes the following topics:

Operations Research and Production Systems. Emergent Behavior Microscopic Representation of Intersection Interactions; Capacity Modeling in Semiconductor Manufacturing; Modeling and Simulation for Productivity Improvement of a Semiconductor Production Line; Cost/Product Analysis for IC Packaging; Cross Training Engineers/Technicians for Semiconductor Manufacturing; Modeling and Analysis of Semiconductor Manufacturing; QS9000 Quality System Implementation; Modeling and Analysis of 300mm Wafer Fabrication Operations; Wafer Fab Operations: Modeling, Analysis, and Design; Introduction to Manufacturing Engineering; Modeling Data Standards; Overall Equipment Effectiveness in Semiconductor Manufacturing; The Role of the Industrial Engineer in Semiconductor Manufacturing; Modeling and Simulation for Productivity Improvement of a Semiconductor Production Line; Support for the Real-Time Product Flow Control in Semiconductor; Manufacturing Project; Productivity Issues in A/P/T Operations; Estimation of the AutoMod Development Drivers in Semiconductor Material Handling Simulations; DMAPS-Business Process Reengineering; A Methodology for Recording the Model Build Cycle; Dynamic Scheduling; Object-Oriented Simulation and Control; Benefit/Cost Analysis for High Technology Man-Machined Systems; Cellular Automata for Traffic Flow Modeling; Methodology for Assessing System Availabilities with Finite Queues; Component Redundancy and Spare Components.

Manufacturing. Advancing On-Machine and Post-Process Inspection Techniques for Machine Performance Enhancements, Applying Manufacturing Models to Develop Smart Machine Technology, Sensor-Fusion Methodology for Manufacturing Variation Reduction, A Tool to Optimize RP Quality by Proper Part Orientation, Computer-Aided Process Planning for Optimal Cost, Time and Quality, Automated Repair of STL Files for Rapid Prototyping, Hardware Interfacing for a Virtual Sculpting Tool, Dimensional Verification of Parts by Comparing Digital Scans with Solid Models, Manufacturing Feature Evaluation and Conversion for Designers, Design for the Environment of a Manufacturing Cluster Growth Methodology, Development of a Protocol for Concurrent Engineering, Cost/Quality/Time Tradeoffs in Manufacturing, Environmental Expert

System for Green Product Design, Web-Based Tutor for Enhanced FMA Experiment.

Quality and Reliability Engineering. Machined Parts Using Statistical Process Control, Optimization of Industrial Processes Using Response Surface Methodology, Use of Mixture Experiments for Product Formulation, Use of Variable Sampling Interval and Variable Sample Size Schemes for Process Monitoring, Diagnostic Characteristics and a Methodology for a Bivariate Pattern Recognition Scheme in SPC, Parameter Estimation from Probability Plots Using Robust Regression Techniques, Data Structures for Multivariate Quality Control, Response Surface Methods for Experiments Involving Noise Variables, Multivariate Statistical Process Control, Generalized Linear Models for Analyzing Designed Experiments, Methods for Fractionally Sampling Multiple Stream Processes, Adaptive Control Charts, Regression Adjustment Techniques in Multivariate Statistical Process Monitoring, The Process and Outcomes of Implementing Statistical Process Control: Towards an OL-Based Model.

Virtual Computer Integrated Enterprise. Configuration Management, Knowledge Supply Chain, Data Warehousing, Rapid Application Development, Collaborative Design Environment for Primes and Subs, Model-Based Enterprise Process Infrastructure, Lean Enterprise Decision Support Systems for the Aerospace Industry, Job Competency Decision Support System, Intranet Infrastructure for Model-Based Systems Development.

Information Systems/Management of Technology. Client-Server Relational Database Interface for a Hierarchical Generic Discrete Manufacturing Simulation Model; Taxonomy and a Multiple Criteria Decision Model for the Evaluation of Sourcing Strategies for the Make or Buy Problem; Methodology for the Management of Multi-Facility Virtual Factory Environments; Understanding Corporate Information and Knowledge Supply Chains; Best Practices, Maturity, and Diffusion in New Product Development; Team Network Characterization in Integrated Product Development; Programmer Performance Measurement in a Software Reuse Context; Push and Pull Technologies in New Product Development; Process Knowledge Bases: Facilitating the Application of Deep Knowledge; Using Software Process Simulation for Making "Good Enough Quality" Decisions; Diagnosing Dynamic Organizational Processes; The Measurement of Consumer Attitudes Concerning Software Quality; Legitimate Roles and Enacted Practices in Cross-Functional Product Development Teams; Perceptions of Success and Failure in Total Quality Management Initiatives; Successful Implementation of QFD; Methods for Studying Organizational Change and Development; The Dynamics of Learning to Automaticity; Autonomous Agents and Hospital Room Scheduling; The Nonlinear Dynamics of Innovation; Modeling and Experimentation for Multi-Response Optimization; NLOCKS: A National Laboratory for Organization Communication and Knowledge Studies; Design a Knowledge Management System for a Product Platform Organization; Supplier Involvement in New Product Development; The Behavior of Purchasing Agents when Dealing with Products of Unknown Quality; Convergence and Divergence in the Innovation Process; Hypermanufacturing: The Next Phase; The Stability of Work Routines in Self-Managed Work Teams.

Human Factors/Ergonomics. Fundamentals of Psychological Science, Computer Vision, The Design and Utilization of Audio Menus in Relation to Worker Productivity, Ergonomics Applied to Workplace Simulation and Design, Impact of Graphics on User's Performance Within the Human Computer Interaction Environment.

Education. The Design, Assessment and Evaluation of an Undergraduate Industrial Engineering Curriculum, Design and Creation of an Industrial Engineering Design Laboratory.

INDUSTRIAL AND MANAGEMENT SYSTEMS ENGINEERING (IEE)

IEE 505 Applications Engineering. (3) F

Develop working knowledge of application systems development tools needed for computer integrated enterprise. Includes techniques for application generation in fourth and fifth generation software environments. Topics include client server network systems, decision support systems, and transaction systems in distributed environment.

IEE 511 Analysis of Decision Processes. (3) S

Methods of making decisions in complex environments and statistical decision theory; effects of risk, uncertainty, and strategy on engineering and managerial decisions. Prerequisite: ECE 380.

IEE 520 Ergonomics Design. (3) S

Human physiological and psychological factors in the design of work environments and in the employment of people in man-machine systems. Open-shop lab assignments in addition to class work. Prerequisite: IEE 437 or 547.

IEE 530 Enterprise Modeling. (3) S

Focus on social, economic, and technical models of the enterprise with emphasis on the management of technological resources. Included are organization, econometric, financial, and large-scale mathematical models.

IEE 531 Topics in Engineering Administration. (3) S 2000

Consideration given to philosophical, psychological, political, and social implications of administrative decisions. Prerequisite: IEE 532 or instructor approval.

IEE 532 Management of Technology. (3) F

Topics include designing a technical strategy; technological forecasting; interfacing marketing engineering and manufacturing; designing and managing innovation systems; creativity; application of basic management principles to technology management. Prerequisite: IEE 431 or 541 or instructor approval.

IEE 533 Scheduling and Network Analysis Models. (3) S

Application of scheduling and sequencing algorithms, deterministic and stochastic network analysis, and flow algorithms. Prerequisites: ECE 380; IEE 476 (or 546).

IEE 541 Engineering Administration. (3) F

Introducing quantitative and qualitative approaches to management functions, engineering administration, organizational analysis, decision making, and communication. IEE 431 students ineligible.

IEE 543 Computer-Aided Manufacturing and Control. (3) S

Computer control in manufacturing, CIM, NC, logic controllers, group technology, process planning and robotics. IEE 463 students ineligible. Prerequisite: C programming capability.

IEE 545 Simulating Stochastic Systems. (3) F, S

Analysis of stochastic systems using basic queuing networks and discrete event simulation. Basic network modeling, shared resources, routing, assembly logic. Not open to students with credit in IEE 475. Prerequisites: ASE 485; CSE 100 (or equivalent); IEE 476 (or 546).

IEE 546 Operations Research Techniques/Applications. (4) F, S

Students model and analyze industrial systems applications with operations research techniques. Resource allocation, product mix, production, shipping, task assignment, market share, machine repair, customer service. Not open to students with credit in IEE 476. Prerequisites: ASE 485; CSE 100.

IEE 547 Human Factors Engineering. (3) F

Study of people at work; designing for human performance effectiveness and productivity. Considerations of human physiological and psychological factors. Open only to students without previous credit for IEE 437.

IEE 552 Strategic Technological Planning. (3) S

Study of concept of strategy, strategy formulation process, and strategic planning methodologies with emphasis on engineering design and manufacturing strategy, complemented with case studies. An analytical executive planning decision support system is presented and used throughout course. Pre- or corequisite: IEE 545 or 566 or 567 or 574 or 575.

IEE 560 Database Concepts for Industrial Management Systems. (3) S

Application of object oriented database technology concepts to manufacturing and enterprise systems.

IEE 561 Production Systems. (3) F, S

Understanding how factories operate, how performance is measured, and how operational changes impact performance metrics. Operational philosophies, increasing production efficiency through quantitative methods. Prerequisites: ASE 485 (or equivalent); IEE 475, 476.

IEE 562 Computer-Aided Manufacturing (CAM) Tools. (3) F

Current topics in automation, distributed control, control code generation, control logic validation, CAM integration, CAD/CAM data structures, planning for control systems. Topics vary by semester. Prerequisite: IEE 463 or 543 or equivalent.

IEE 563 Systems Analysis for Distributed Systems. (3) S

Analysis and design of distributed groupware applications for manufacturing and enterprise systems. Prerequisite: ECE 380.

IEE 564 Planning for Computer-Integrated Manufacturing. (3) F

Theory and use of IDEF methodology in planning for flexible manufacturing, robotics, and real-time control. Simulation concepts applied to computer-integrated manufacturing planning. Prerequisite: IEE 463 or 543.

IEE 565 Computer-Integrated Manufacturing Research. (3) S

Determination and evaluation of research areas in computer-integrated manufacturing, including real-time software, manufacturing information systems, flexible and integrated manufacturing systems, robotics, and computer graphics. Prerequisite: IEE 564.

IEE 566 Simulation in Manufacturing. (3) F

Use of simulation in computer-integrated manufacturing with an emphasis on modeling material handling systems. Programming, declarative, and intelligence-based simulation environments. Prerequisite: IEE 545.

IEE 567 Simulation System Analysis. (3) S

Simulation modeling of processes involving discrete and continuous system components. Topics include random number generators, output analysis, variance reduction, and statistical issues related to simulation. Prerequisite: IEE 545.

IEE 569 Advanced Statistical Methods. (3) F 2000

Application of statistical inference procedures, based on ranks, to engineering problems. Efficient alternatives to classical statistical inference constrained by normality assumptions. Prerequisite: ASE 485 or 500.

IEE 570 Advanced Quality Control. (3) S

Economic-based acceptance sampling, multiattribute acceptance sampling, narrow limit gauging in inspector error and attributes acceptance sampling, principles of quality management, and selected topics from current literature. Prerequisite: ASE 485 or 500 or equivalent.

IEE 571 Quality Management. (3) F

Total quality concepts, quality strategies, quality and competitive position, quality costs, vendor relations, the quality manual, and quality in the services. Prerequisite: IEE 431 or 541.

IEE 572 Design of Engineering Experiments. (3) F, S

Analysis of variance and experimental design. Topics include general design methodology, incomplete blocks, confounding, fractional replication, and response surface methodology. Prerequisite: ASE 485 or 500.

IEE 573 Reliability Engineering. (3) S

Nature of reliability, time to failure densities, series/parallel/standby systems, complex system reliability, Bayesian reliability, and sequential reliability tests. Prerequisite: ECE 380.

IEE 574 Applied Deterministic Operations Research Models. (3) F, S

Advanced techniques in operations research are developed for the solution of complex industrial systems problems. Goal programming, integer programming, heuristic methods, dynamic and nonlinear programming. Prerequisites: IEE 476 (or 546); MAT 242.

IEE 575 Applied Stochastic Operations Research Models. (3) S

Students formulate and solve industrial systems problems with stochastic components using analytical techniques. Convolution, continuous-time Markov chains, queues with batching, priorities, balking, open/closed queuing networks. Prerequisites: ASE 485; IEE 476 (or 546).

IEE 577 Decision and Expert Systems Methodologies. (3) F

Application of artificial intelligence methodologies in decision support systems. Topics include neural networks, fuzzy logic systems, and expert systems. Prerequisite: CSE 100 or equivalent.

IEE 578 Regression Analysis. (3) F

A course in regression model building oriented toward engineers/physical scientists. Topics include linear regression, diagnostics biased and robust fitting, nonlinear regression. Prerequisite: ASE 485 or 500.

IEE 579 Time Series Analysis and Forecasting. (3) F 1999

Forecasting time series by the Box-Jenkins and exponential smoothing techniques; existing digital computer programs are utilized to augment the theory. Prerequisites: ASE 485 (or 500); IEE 461.

IEE 582 Response Surfaces and Process Optimization. (3) S

An introduction to response surface method and its applications. Topics include steepest ascent, canonical analysis, designs, and optimality criteria. Prerequisite: IEE 572.

IEE 672 Advanced Topics in Experimental Design. (3) S 2000

Engineering applications of factorial and fractional factorial designs with randomization restrictions, analysis techniques in parameter comparison, missing data, unbalanced designs. Prerequisite: IEE 572 or instructor approval.

IEE 677 Regression and Linear Models. (3) S 2001

General linear models, applications, theory, including least squares, maximum likelihood estimation, properties of estimators, likelihood ratio tests and computational procedures. Prerequisite: IEE 578 or instructor approval.

IEE 679 Time Series Analysis and Control. (3) F 2000

Identification, estimation, diagnostic checking techniques for ARIMA models, transfer functions, multiple time series models for feedback and feedforward control schemes. Prerequisite: IEE 579 or instructor approval.

IEE 681 Reliability, Availability, and Serviceability. (3) F 2000

Organizing hardware and software, integrity and fault-tolerant design, maintenance design and strategy, Markov models, fault-free analysis, and military standards. Prerequisite: ECE 380.

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

Information Management

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PROFESSORS

J.R. BOATSMAN, BOYD, FLAHERTY, JOHNSON, KAPLAN,
 PANY, PHILIPPAKIS, RECKERS, RENEAU, SCHULTZ,
 SHRIVER, R. SMITH, STEINBART, TIDWELL, WYNDELTS

ASSOCIATE PROFESSORS

CHRISTIAN, GOLEN, GOUL, GUPTA, KEIM, KIANG,
 KULKARNI, MOECKEL, O'DELL, O'LEARY, PEI, REGIER,
 ROY, ST. LOUIS, VINZE

ASSISTANT PROFESSORS

CHEN, CHENOWETH, DAVID, DOWLING, HWANG, IYER,
 MISHRA, SANTANAM, K. SMITH, WHITECOTTON

SENIOR LECTURERS

MacCRACKEN, SHREDNICK

LECTURERS

BALOGH, J.L. BOATSMAN, GEIGER, HAYES, TAYLOR

The faculty in the College of Business offers a program leading to the M.S. degree in Information Management.

The faculty also participate in the programs leading to the Master of Business Administration (see "Master of Business Administration," page 128) and Ph.D. degree in Business Administration (see "Business Administration," page 128) degrees.

MASTER OF SCIENCE

The program leading to the M.S. degree in Information Management educates specialists to develop and apply quantitative and computer methods to support business decision making. Areas of study include strategic cost management, technical foundations of data management, business database concepts, electronic commerce, distributed database systems, information systems development, event based models, decision support systems, and project management.

Admission. All applicants must have completed three courses in business, one course in calculus, one course in statistics, and one programming language. Refer to the School of Accountancy and Information Management for a current listing of required course prerequisites for the program. All applicants are also required to submit the supplemental application materials required from the school. A complete advising guide and application packet may be obtained by writing

ARIZONA STATE UNIVERSITY
 COLLEGE OF BUSINESS
 SCHOOL OF ACCOUNTANCY
 AND INFORMATION MANAGEMENT
 PO BOX 873606
 TEMPE AZ 85287-3606

Applicants must also submit scores from either the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE). International applicants whose native language is not English must submit scores from the Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE) exams.

Program of Study. The program of study consists of a minimum of 30 semester hours. A sample program of study might include:

ACC 541 Strategic Cost Management and Uses of Information Technology	3
CIS 505 Object-Oriented Modeling and Programming	3
CIS 506 Business Database Concepts	3
CIS 512 Decision Support Systems.....	3
CIS 530 Information Systems Development	3
CIS 535 Distributed Information Systems.....	3
CIS 591 Seminar on selected CIS topics	9
CIS 593 Applied Project.....	3
Total.....	30

Foreign Language Requirements. None.

Thesis Requirements. A thesis is optional.

Final Examinations. A final written examination is required of all candidates. In addition, an oral examination in defense of the thesis is required of candidates who elect to write a thesis.

RESEARCH ACTIVITY

Research activities of Information Management faculty encompass theory and applications in computer information systems and management science. The faculty are actively engaged in research in the following areas: database systems, artificial intelligence, management information systems, decision support systems, model management systems, decision analysis, linear statistical models, panel models, forecasting, productivity and quality management, project management, health care operations, and service operations.

Students and faculty have access to excellent computing facilities, including mainframes, minicomputers, computer workstations, and specialized equipment and software for research in graphics, distributed database systems, group decision support systems, model management systems, management science, operations simulation, and statistics.

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 420 Business Database Concepts. (3) F, S
 Database theory, design, and application, including the entity-relationship model; the relational, hierarchical, and network database models; and query languages. Prerequisite: professional program business student majoring in Computer Information Systems or Accountancy. Prerequisites with a grade of "C" or higher: ACC 330; CIS 335.

CIS 430 Networks and Distributed Systems. (3) F, S
 Advanced topics such as communications protocols, distributed systems, and client-server systems; applications based on platforms such as networked UNIX. Prerequisite: professional program business student majoring in Computer Information Systems. Prerequisite with a grade of "C" or higher: CIS 335.

CIS 440 Systems Design and Electronic Commerce. (3) F, S
Systems design for organizational and electronic commerce systems; use of project management and systems analysis and design tools. Prerequisites: professional program business student majoring in Computer Information Systems. Prerequisites with a grade of "C" or higher: CIS 410, 420.

CIS 502 Management Information and Decision Support Systems. (3) A
Fundamentals of computer-based management information and decision support systems. Prerequisite: M.B.A. degree program student.

CIS 505 Object-Oriented Modeling and Programming. (3) A
Object-oriented modeling of business information systems, abstract data types and object-oriented programming using a visual language. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 506 Business Database Systems. (3) A
Hierarchical, network, relational, and other recent data models for database systems. Processing issues such as concurrency control, query optimization, and distributed processing. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 510 Systems Models and Simulation. (3) N
Design of computer-based decision systems. Simulation as a research and decision-making tool. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 512 Decision Support Systems. (3) A
Definition, description, construction, and evaluation of computer-based decision systems. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 515 Management Information Systems. (3) N
Systems theory concepts applied to the collection, retention, and dissemination of information for management decision making. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 520 Systems Design and Evaluation. (3) N
Methodologies of systems analysis and design. Issues include project management, interface, organizational requirements, constraints, documentation, implementation, control, and performance evaluation. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 525 Artificial Intelligence in Business. (3) N
Development and application of artificial intelligence approaches to business problem solving. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 530 Information Systems Development. (3) A
Object-oriented and interprocess communication and control concepts for information systems; applications based on languages such as C++ and platforms such as networked UNIX. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 535 Distributed Information Systems. (3) A
Introduction to distributed systems and their impact on information systems in business. Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

CIS 591 Seminar on Selected CIS Topics. (1–12) A
Topics such as the following are offered:
(a) Computer Security
(b) Computing Architectures
(c) Data Warehouse and Data Mining
(d) Electronic Commerce
(e) Enterprise Modeling
Prerequisite: M.S. in Information Management or Master of Accountancy degree program student.

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

OPERATIONS AND PRODUCTION MANAGEMENT (OPM)

OPM 502 Operations Management. (3) A
Contemporary management issues, including environmental, project, and supply chain management; new product development; quality control; TQM. Prerequisites: computer literacy; graduate degree program student.

OPM 540 Quality and Productivity Management. (3) N
Organizational factors influencing quality and productivity in the production of goods and services. Quality and productivity strategies, improvement programs, and measurement systems. Prerequisite: OPM 502 or instructor approval.

OPM 582 Capacity Management and Scheduling. (3) A
Decisions regarding management of technology for manufacturing and service firms. Facilities location, layout, process design and selection, and manufacturing strategy. Prerequisite: QBA 561 or instructor approval.

OPM 585 Facilities Design and Management of Technology. (3) A
Decisions regarding management of facilities and technology for manufacturing and service firms. Facilities location, layout, process design, and selection. Prerequisite: QBA 561.

OPM 587 Project Management. (3) A
Planning, scheduling and controlling of projects in R & D, manufacturing, construction and services. Project selection, financial considerations, and resource management. Prerequisite: QBA 502.

OPM 591 Seminar. (3) A
Topics such as the following offered:
(a) High Performance Management Systems
(b) Manufacturing Strategy
(c) New Product and Process Development

OPM 593 Applied Projects. (3) A
Cross-functional teams initiate (possibly implement) organizational change within a local firm. Lecture, discussion, experiential learning. Prerequisite: completion or concurrent enrollment in all core courses in the M.B.A. program.

OPM 791 Doctoral Seminars in Operations and Production Management. (1) N
Short module seminars such as:
(a) Management of Technology
(b) Manufacturing Strategy
(c) Operations Management
(d) Project Management

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

QUANTITATIVE BUSINESS ANALYSIS (QBA)

Department of Economics

QBA 410 Applied Business Forecasting. (3) N
Application of forecasting techniques in business and institutional environments. Prerequisite: QBA 321.

QBA 421 Applied Quality Analysis II. (3) A
Applications of statistical tools employed in manufacturing and experimental research. Applications focus on design and improvement of processes. Prerequisite: QBA 321.

QBA 511 Sampling Techniques in Business. (3) N
Planning, execution and analysis of surveys in business research. Prerequisite: QBA 502.

QBA 525 Applied Regression Models. (3) A
Simple linear regression, multiple regression, indicator variables, and logistic regression. Emphasis on business and economic applications. Prerequisite: MAT 210.

QBA 527 Categorical Data Analysis. (3) A
Discrete data analysis in business research. Multidimensional contingency tables and other discrete models. Prerequisite: QBA 525.

QBA 530 Experimental Design. (3) A
Experimental designs used in business research. Balanced and unbalanced factorial designs, repeated measures designs, and multivariate analysis of variance. Prerequisite: QBA 525 or equivalent.

QBA 535 Multivariate Methods. (3) A
Advanced statistical methods used in business research. Multivariate analysis of association and interdependence. Prerequisite: QBA 525.

QBA 540 Forecasting. (3) N
Foundation of statistical forecasts and forecast intervals; application of classical and computer-assisted forecasting methods to business forecasting problems. Prerequisites: MAT 210; QBA 502.

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

Justice Studies

Master's Program

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REGENTS' PROFESSORS ALTHEIDE, PALUMBO

PROFESSORS
 CAVENDER, FIGUEIRA-McDONOUGH, GOLDBERG,
 HAYNES, HEPBURN, JOHNSON, JURIK, LAUDERDALE,
 MUSHENO, ROMERO, SCHNEIDER, ZATZ

ASSOCIATE PROFESSORS
 BORTNER, LUJAN, RIDING IN, SCHADE

ASSISTANT PROFESSORS
 ADELMAN, BERNSTEIN, MENJIVAR

The faculty in the School of Justice Studies offer a program leading to the M.S. degree in Justice Studies.

Graduate students in the School of Justice Studies and the Department of Anthropology are able to receive a concurrent M.S. degree in Justice Studies and M.A. degree in Anthropology with a concentration in social-cultural anthropology. The principal purpose of the program is to prepare individuals with complementary knowledge and skills for basic and applied research and to provide administrative and educational activities related to justice studies and anthropology. Students must be admitted separately to each program, following the guidelines of the Graduate College, Department of Anthropology, and School of Justice Studies. Additional information on the M.A. degree in Anthropology and the M.S. degree in Justice Studies may be obtained from each academic unit.

Information about the interdisciplinary Ph.D. degree in Justice Studies may be obtained from the graduate coordinator's office. See "Justice Studies," page 229.

MASTER OF SCIENCE

The faculty in the School of Justice Studies offer a program leading to the M.S. degree in Justice Studies. The study of justice is an interdisciplinary field of scholarship, research, and teaching, embracing those aspects of social and behavioral sciences relevant to an understanding of law, justice, crime, and social deviance. It includes a critical examination of the policies and organizational processes that have evolved for handling attendant problems. The M.S. degree has been designed to prepare students for professional positions in justice-related agencies, for teaching in community colleges, and for further study and research in the justice field.

Admission. In addition to meeting Graduate College requirements, the applicant must submit Graduate Record Examination (GRE) scores, a one- or two-page statement outlining the applicant's educational and career goals

related to Justice Studies, and three letters of recommendation, preferably from academic referees. Because of enrollment limits, candidates who meet minimum requirements are not automatically admitted into the program.

Selection Criteria. In selecting promising candidates, the admissions committee evaluates past academic performance, scores from the GRE and potential for success as indicated by recommendations and personal statements.

Applications to the program may be made at any time; however, complete files must be submitted to the Graduate College by January 1 for fall admission.

International Applicants. In addition to admission material, international applicants whose native language is not English must submit scores from the Test of English as a Foreign Language. Evidence that sufficient funds are available for financing the student's academic program also must be submitted. See "Admission to the Graduate College," page 89, for more information.

Advisory Committee. Upon admission of the applicant, a temporary advisor is appointed. The temporary advisor is a faculty member who assists students in the selection of courses for the first semester until an advisory committee is formed. Typically, by the end of the first year, students form an advisory committee consisting of a chair and two members. The chair and at least one member must be faculty of the School of Justice Studies.

The committee members must be appointed by the dean of the Graduate College upon the recommendation of the director of the School of Justice Studies. The advisory committee works with the student to establish a program of study, to direct the thesis, and to administer the oral examination.

Program of Study. The M.S. degree in Justice Studies has two options: a thesis or an applied project. The thesis option requires the completion of 36 semester hours, of which six are thesis hours. The applied project option requires the completion of 42 semester hours, of which three are JUS 593 Applied Project. Each student's program is developed in concert with the advisory committee, in accord with the student's background of preparation and educational and career objectives. The program of study has three major categories: foundation courses, elective courses, and thesis requirements.

Foundation Courses. The required foundation courses provide students with a fundamental understanding of the theories, methods, and analytic techniques associated with the study of justice. Foundation Courses include:

JUS 500 Justice Research Methods.....	3
JUS 501 Justice Theory.....	3
JUS 509 Statistical Problems in Justice Research.....	3
JUS 521 Qualitative Data Analysis and Evaluation	3

Elective Courses. Offered by the School of Justice Studies and other academic units, elective courses develop a unique research area in justice studies. Students may choose these courses in consultation with their advisory committees. Alternatively, students may choose one of the following areas within justice studies:

1. adolescence and justice;
2. American Indian justice;
3. comparative justice;

4. crime and justice;
5. dispute resolution;
6. gender and justice;
7. law, ecology, and society;
8. law, policy, and evaluation;
9. race, ethnicity, and justice; or
10. social and economic justice.

Thesis Requirements. To satisfy the research requirement for the Master of Science degree, candidates must present a thesis and defend it in an oral examination.

Applied Project Requirements. Candidates pursuing the applied project option must present their applied project and defend it in an oral examination conducted by the faculty member who supervises the project. The project should be an analytical report based on field experience.

Foreign Language Requirements. None.

Financial Assistance. A limited number of assistantships are available on a competitive basis for well-qualified students at the master's level. To be eligible for an assistantship, students must be admitted to a graduate degree program with regular admission status. Application should be made directly to the School of Justice Studies.

RESEARCH ACTIVITY

The School of Justice Studies has a strong commitment to ongoing research programs. Graduate students have ample opportunities to participate in these pursuits through paid research assistantships as well as research apprenticeships and independent studies at the graduate level.

Areas of faculty research include the following: administration and management in justice-related agencies; adolescence and justice; American Indians and justice; analyses of criminal justice reforms; community crime prevention; community risk assessment; comparative justice; corrections; criminological theory; critical race theory; deviant behavior; dispute resolution; distributive justice; domestic violence; ethical theory; female criminality; feminist sociolegal theories; gangs; gender, justice and inequality; grievance processes; immigration and migration; justice and the media; juvenile justice; law and society; legal studies; organizational theory and behavior; police; political deviance; program evaluation; race, gender and class; social control and conflict; social movements; social policy; victimization; white collar and corporate deviance; workplace inequality; and world systems.

JUSTICE STUDIES (JUS)

JUS 500 Justice Research Methods. (3) A

Theories and methods of research with emphasis on development of designs most relevant to justice data and problems.

JUS 501 Justice Theory. (3) A

Theories and philosophies of social, economic, political and criminal justice. Applications of theories to contemporary justice issues. Lecture, discussion.

JUS 503 Crime and Social Causation. (3) A

Theories of deviance and crime as they relate to social policies and specific response of the justice complex.

JUS 509 Statistical Problems in Justice Research. (3) A

Methodological problems of research design and statistical methods specific to justice studies.

JUS 510 Understanding the Offender. (3) A

Survey of learning, personality, and biological theories of causation and their relevance to understanding criminal and delinquent behavior.

JUS 514 Justice Policy. (3) A

Assessment of the politics of justice policy as well as an understanding of the basic tools available to social scientists for analyzing the formulation, implementation, and evaluation of justice policy.

JUS 515 Comparative Justice. (3) A

Focuses on justice, legality, and human rights cross-culturally, examining both theoretical and methodological issues. Seminar.

JUS 520 Qualitative Theory and Data Collection. (3) A

The basic theoretical rationale and perspectives for justice related qualitative research, e.g., symbolic interactionism. Techniques for data collection, e.g., ethnography and depth interviewing.

JUS 521 Qualitative Data Analysis and Evaluation. (3) A

Analysis of qualitative data, e.g., field notes, depth interview transcripts, document analysis, coding, and retrieval with a microcomputer; qualitative evaluation.

JUS 542 American Indian Justice. (3) A

Designed to provide a broad overview of American Indian and Alaskan Native issues of justice and injustice in contemporary society.

JUS 547 Program Evaluation. (3) A

Nature/role of program evaluation; types, program monitoring, impact and process assessment, evaluability assessment, methods, utilization, and politics of evaluation. Lecture, lab. Pre- or corequisite: JUS 500 recommended.

JUS 550 Alternatives to Incarceration. (3) A

Investigation of various alternatives to incarceration; advantages/disadvantages; major issues including net widening, cost effectiveness, risk assessment, community crime prevention. Lecture, research.

JUS 560 Women, Law, and Social Control. (3) A

Gender issues in the exercise of formal and informal mechanisms of social control, including economic, social, legal factors, both violent and nonviolent.

JUS 570 Juvenile Delinquency. (3) A

Study of delinquency, including causation theories. Alternative definitions of delinquency, official statistics, and the critique and analysis of the interaction between social institutions and youth.

JUS 571 Juvenile Justice System. (3) A

Graduate-level introduction to juvenile justice system, including historical development, philosophical orientation, organizational structure, and contemporary controversies.

JUS 579 Political Deviance. (3) A

The seminar examines the politics of deviance by integrating the study of conflict with aspects of social organization, especially state formation.

JUS 584 Internship. (3 or 6) F, S, SS

Assignments in a justice agency designed to further the student's integration of theory and practice. Placements are arranged through consultation with students and agencies.

JUS 588 Justice and the Mass Media. (3) A

An analysis of the nature and impact of mass media messages about justice concerns for social order. Lecture, discussion.

JUS 591 Seminar. (1-3) A

Topics chosen from various fields of justice studies. May be repeated for credit.

Omnibus Graduate Courses: See pages 51-52 for omnibus graduate courses that may be offered.

Justice Studies

Interdisciplinary Doctoral Program

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Anthropology

Professor: Brandt;
 Associate Professor: Aguilar

Communication

Professor: Kastenbaum;
 Assistant Professor: Trethewey

Curriculum and Instruction

Professor: Edelsky

Economics

Professors: Mayer, McPheters

English

Professor: Sands;
 Assistant Professor: Stevens

History

Professor: Fuchs;
 Associate Professor: Hurtado

Journalism and Telecommunications

Professor: Watson

Justice Studies

Regents' Professors: Altheide, Palumbo;
 Professors: Cavender, Figueira-McDonough, Goldberg,
 Haynes, Hepburn, Johnson, Jurik, Lauderdale, Musheno,
 Romero, Schneider, Zatz;
 Associate Professors: Bortner, Lujan, Riding In;
 Assistant Professors: Adelman, Bernstein, Menjivar

Languages and Literatures

Regents' Professor: Foster;
 Professor: Baldini

Law

Regents' Professor: Murphy
 Professors: Bartels, Kader, Lowenthal, Stanton, Strouse,
 Tesón, Tsosie

Philosophy

Regents' Professor: Murphy
 Associate Professors: de Marneffe, McGregor

Political Science

Associate Professors: Ashley, Dantico, Doty

Psychology

Regents' Professor: Russo;
 Professor: Lanyon

Psychology in Education

Associate Professor: Moore

Public Affairs

Professor: Weschler

Recreation Management and Tourism

Professor: Allison

Religious Studies

Associate Professor: Gereboff

Social Work

Professor: Ashford

Sociology

Professors: Nagasawa, Thomas;
 Associate Professor: Benin

Women's Studies

Associate Professor: Ferraro

The Committee on Law and Social Sciences (COLASS) offers an interdisciplinary graduate program leading to the Ph.D. degree in Justice Studies. The Ph.D. degree in Justice Studies integrates philosophical, legal, and historical approaches with social science training. The committee is interdisciplinary, and sets guidelines and supervises programs of study. Faculty from a number of academic units enable a student to tailor a course of study to fit individual needs and goals. The committee is composed of members from the Departments of Anthropology, Communication, Economics, Languages and Literatures, History, Management, Philosophy, Political Science, Psychology, Recreation Management and Tourism, Religious Studies, Sociology, the College of Law, and the Schools of Justice Studies, Public Affairs, and Social Work. An executive committee, appointed by the dean of the Graduate College from this larger body of faculty, has the primary responsibility for the operation of the Ph.D. program.

DOCTOR OF PHILOSOPHY

The focus of the Ph.D. degree in Justice Studies is the study of law and justice in society and the creation of new knowledge. Subject matter includes assessing the impact of legal systems and other institutions on the distribution of rights, benefits, and burdens on citizens.

This interdisciplinary program aims to produce scholars whose research activities contribute to the knowledge and understanding of conflicts and dilemmas surrounding social change. Courses on the study of justice are a part of the curriculum of many academic disciplines, and academic books and journals increasingly stress issues of justice and injustice. In addition to the interdisciplinary programs featuring justice, students may enter academic programs that focus on gender, race, ecology, class, law, and public and business administration. Justice Studies graduates from the interdisciplinary Ph.D. program will have a strong theoretical background, interdisciplinary training in law, humanities, and the social sciences, and may possess the technical skills associated with both qualitative and quantitative research methodologies. These qualifications can provide graduates with the opportunity to successfully compete for a variety of positions in academic and justice-related fields.

Admission. Applications are reviewed on an annual basis by an admissions committee representing COLASS. Recommendations for admission are made by the director of the Executive Committee to the dean of the Graduate College. In addition to meeting minimum Graduate College admission requirements, each applicant must provide a statement of educational and career goals and the reasons for seeking the interdisciplinary Ph.D. in Justice Studies, a Graduate Record Examination test score or the Law School Admission Test score, a sample of written work, and three letters

of recommendation, preferably from academic referees. Because of enrollment limits, candidates who meet minimum requirements cannot automatically be admitted.

Advisory Committee. An advisory committee consisting of at least three persons, a committee chairperson and two other faculty members, is appointed by the dean of the Graduate College upon the recommendation of the director of the Committee on Law and Social Sciences. The advisory committee advises the student in developing a program of study and assumes primary responsibility for assessing the student's progress in the program. The advisory committee prepares and evaluates the comprehensive examination.

Core Courses. Five core courses are required of all students in the program. The core courses are taken within the first three semesters of the student's program of study. Each core course is interdisciplinary in nature. The core courses are as follows:

JUS 610	Law and the Social Sciences.....	3
JUS 620	Justice Research and Methods.....	3
JUS 630	Data Analysis for Justice Research.....	3
JUS 640	Theoretical Perspectives on Justice.....	3
JUS 650	Advanced Qualitative Data Analysis.....	3
Total		15

Areas of Concentration. Students use elective courses to develop a specialization in an area relevant to justice studies from a law and social sciences perspective. The specialization is developed through consultation with the student's advisory committee. Five areas of concentration have been established, based on the research and teaching expertise of participating faculty. These formalized concentrations are:

1. criminal and juvenile justice;
2. dispute resolution;
3. law, justice, and minority populations;
4. law, policy, and evaluation; and
5. women, law, and justice.

From these broad concentrations, students can develop areas of study emphasizing:

1. adolescence and justice;
2. American Indian justice;
3. comparative justice;
4. crime and justice;
5. dispute resolution;
6. gender and justice;
7. law, ecology, and society;
8. law, policy, and evaluation;
9. race, ethnicity, and justice; and
10. social and economic justice.

Students may develop other areas of study in consultation with their advisory committee. Courses are not limited to those departments and schools participating in the Committee on Law and Social Sciences.

Program of Study. Students entering the program with a master's degree in the social sciences, philosophy, a relevant interdisciplinary field, or a Juris Doctorate (J.D.), must complete a minimum of 54 semester hours of study beyond

the master's or J.D. degree, including 24 semester hours of dissertation and research. Applicants holding only the baccalaureate degree are required to complete an additional 30 hours of graduate credit for a total of 84 semester hours. The student should expect to devote at least one to two years to complete the dissertation. At least 30 hours of dissertation and research hours must be taken at ASU. After students are admitted to the Ph.D. program, they must spend at least two consecutive semesters in full-time residence at ASU.

Foreign Language Requirements. None.

Comprehensive Examinations. Upon completion of course work and before the start of dissertation research, the student is given a written examination. The examination evaluates the student's accumulation of interdisciplinary knowledge and ability to communicate across disciplines. The exam is developed and administered by the student's advisory committee.

Dissertation Committee. After passing the comprehensive examination, a dissertation committee is formed and approved by the dean of the Graduate College upon the recommendation of the director of the executive committee. The dissertation committee must consist of at least three faculty members, including the dissertation committee chairperson. The committee must represent an interdisciplinary faculty, with demonstrated interdisciplinary knowledge and skills to advise the student during the formulation of the research topic and during the completion of the research and dissertation. The three-membered committee must represent at least two disciplines and two different academic units. The dissertation and advisory committees may have different memberships.

Advancement to Candidacy. Ph.D. students will achieve candidacy status in a letter from the Graduate College dean upon (1) passing the comprehensive examination, and (2) successfully defending the dissertation prospectus.

Dissertation Requirements. The dissertation consists of a fully documented written analysis demonstrating an appropriate level of interdisciplinary skills and competence associated with a justice issue. Each student must register for a minimum of 24 semester hours of dissertation and research; 12 of these semester hours must be completed after candidacy.

Final Examinations. The dissertation must be defended in an oral examination. A candidate must pass the final examination within five years after completing the comprehensive examination.

Concurrent Ph.D. in Justice Studies/J.D. Degree. The purpose of the concurrent Ph.D. in Justice Studies/J.D. degrees is to provide a rigorous education for highly qualified students interested in pursuing academic careers in law, law and the social sciences, or law and philosophy. In order to seek concurrent degrees, the prospective student must first gain separate admission to the College of Law and the interdisciplinary Ph.D. program in Justice Studies. The student must then obtain special approval to pursue concurrently the J.D. and Ph.D. degrees. No more than three students per year are admitted into the concurrent degree program.

RESEARCH ACTIVITY

Faculty making up the COLASS are engaged in a variety of research activities. Faculty research interests are as follows: alternative organizations and social services; American and European women’s history; American Indian history; American Indian repatriation; bureaucratic power; comparative legal studies; corporate crime; corrections, including privatization and alternatives; domestic violence; ecological justice; economic models of crime; educational reforms for inner city schools; environmental law; environmental racism; ethics theory; European social institutions; feminist theories; gender and sexuality; gender justice; indigenous law; informal justice and dispute resolution; international law; judicial administration; judicial behavior; jurisprudence; justice for the physically challenged; justice and minority populations; juvenile justice and law; juveniles and status offenses; law and ecology; law and social control; law and society; logic of policy inquiry; migration and immigration; nature and law; official information and deviance; organizational ethics; philosophy and the law; political deviance; psychology, law, and public policy; race, class, and gender; racism; religion and moral issues; rights of AIDS victims and AIDS educational strategies; rights of older adults; services equity; social inequality and ethnicity; social theory; women and crime; women and work; and world system’s theory.

JUSTICE STUDIES (JUS)

- JUS 610 Law and the Social Sciences.** (3) A
Analysis of the theoretical grounds underlying diverse studies of law and society; creation and administration of law; and jurisprudence and politics.
- JUS 620 Justice Research and Methods.** (3) A
Concept development, research design, data collection strategies, legal research, and building computer databases relevant to the study of justice.
- JUS 630 Data Analysis for Justice Research.** (3) A
Bivariate and multivariate techniques of data analysis and hypothesis testing for justice-related research and use of information and statistical programs.
- JUS 640 Theoretical Perspectives on Justice.** (3) A
Analysis of philosophical perspectives of justice; linkages between social science theory and justice constructs; application of justice to social issues.
- JUS 650 Advanced Qualitative Data Analysis.** (3) S
Advanced qualitative data collection and analysis techniques, including ethnography, in-depth interviews, field notes, coding, transcribing, content analysis, textual analysis. Seminar.
- JUS 669 Political Trials and Indigenous Justice.** (3) A
Focuses upon research on political trials, deviance, and conceptions of indigenous and contemporary justice. Lecture, discussion.
- JUS 691 Seminar.** (1–3) F, S, SS
Topics chosen from various fields of justice studies. May be repeated for credit.
- Omnibus Graduate Courses:** See pages 51–52 for omnibus graduate courses that may be offered.

Languages and Literatures

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REGENTS’ PROFESSORS
FOSTER, KELLER

PROFESSORS

ALEXANDER, BALDINI, BALLON-AGUIRRE, CHAMBERS, COUCH, CROFT, CURRAN, EKMANIS, FLYS, GUNTERMANN, HORWATH, LOSSE, VALDIVIESO, VOLEK, WETSEL, WIXTED, WONG

ASSOCIATE PROFESSORS

COTA-CÁRDENAS, GARCIA-FERNANDEZ, W. HENDRICKSON, HERNÁNDEZ-G., LAFFORD, OSSIPOV, REIMAN, SANCHEZ, SENNER, WILLIAMS

ASSISTANT PROFESSORS

ACEREDA, BURTON, CANDELA, CHOI, COLINA, GROVE, GRUZINSKA, MARSHALL, NISHIMURA-JENSEN, REES, SUWARNO, TIPTON, URIOSTE-AZCORRA, VITULLO

LECTURERS

BERNIER, CRISTO, FOARD, S. HENDRICKSON, LIONTAS, McMILLAN, SCOTT, SONANDRES, STIFTEL

INSTRUCTORS

HABERMAN, KORET, LE, TU

ASSISTANT RESEARCH PROFESSIONAL
ORLICH

ACADEMIC ASSOCIATE
GLESSNER

The faculty in the Department of Languages and Literatures offer graduate programs leading to the M.A. degree in French, German, and Spanish. Concentrations are available in the following areas:

1. comparative literature (in cooperation with the faculty in the Department of English),
2. language and culture,
3. linguistics (in Spanish only), and
4. literature.

Students admitted to the Master of Education degree program in Secondary Education may elect foreign languages as the subject matter field. See “Master of Education,” page 174, for information on the Master of Education degree.

The faculty also offer a graduate program with a major in Spanish leading to the Ph.D. degree. See “Doctor of Philosophy,” page 101, for general requirements.

It is recommended, but not required, that students applying for admission to the M.A., M.Ed., or Ph.D. program submit scores on the Graduate Record Examination.

MASTER OF ARTS

Candidates for the M.A. degree should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack this background, but who show strong potential and meet Graduate College admissions requirements, may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master's degree.

Students in all graduate programs are expected to maintain a high level of linguistic fluency acceptable to a native speaker. Before acceptance in the program, applicants may be requested to furnish evidence of their proficiency.

The program of study for the M.A. degree includes a minimum of 30 semester hours of graduate-level work, as approved by the candidate's supervisory committee. The program must include a 500-level Bibliography and Research Methods course offered by the department. It is recommended that the course be taken, if possible, in the first semester of the candidate's graduate career. (Students in the Spanish program [literature concentration] also are required to enroll in SPA 545 Concepts of Literary Criticism.) When approved by the candidate's supervisory committee, nine hours in another language or in closely related courses may be included in the program.

Students pursuing their graduate studies in a program with a concentration in literature, comparative literature, or linguistics present an acceptable thesis for which six hours of credit are granted.

Students who are primarily interested in teaching on the secondary or community college levels may select, with the approval of the supervisory committee, a program of study with a concentration in language and culture. Students in this program present a thesis for which six hours of credit are granted.

Comprehensive Examinations. All candidates are required to pass a comprehensive written or oral examination designed to evaluate the candidate's knowledge in the area of specialization. A reading list is provided as a guide to preparation for this examination.

Thesis Requirements. A thesis is required.

Final Examinations. A final oral examination in defense of the thesis is required.

DOCTOR OF PHILOSOPHY

The Ph.D. degree is offered with a major in Spanish.

Program of Study. The student's individual program of courses covering the various periods of Spanish and Latin American literature, as well as the historical and political background of both areas, is determined in consultation with the supervisory committee. Specifically required are SPA 500 Bibliography and Research Methods, SPA 540 History of the Spanish Language, and SPA 545 Concepts of Literary Criticism.

At least 15 graduate credits must be earned in the subfield, and the candidate's program of study in the subfield must be approved by the subfield department. Normally the comprehensive examination on the subfield, administered by the subfield department, must be satisfied before the

comprehensive in Spanish. Students are urged to consult the *Handbook for Spanish Graduate Students*.

Foreign Language Requirements. Each candidate is expected to demonstrate a reading knowledge of two languages other than Spanish. The language requirements must be satisfied before the candidate is eligible to take the comprehensive examination.

Comprehensive Examinations. A written and oral comprehensive examination, designed to ascertain the candidate's knowledge and orientation in the field of study and competency to proceed with the dissertation, is required at or near the end of course work.

Dissertation Requirements. The candidate must present an acceptable dissertation based on original investigation. The dissertation must represent a significant contribution to knowledge and demonstrate the candidate's ability to do independent, scholarly research.

Final Examinations. A final oral examination is required. This examination covers the subject matter of the dissertation and appropriate field.

RESEARCH ACTIVITY

Commitment to professional research in the Department of Languages and Literatures is evidenced by the large number of faculty publications and conference papers. Faculty members are engaged in editorial work for scholarly presses and journals. The Bilingual Press is now based at the university. The ASU Library collection has extensive holdings in all the fields of foreign languages. Both faculty and students have access to computer aids for research. In addition, the Latin American Studies Center coordinates Latin American research programs for faculty and students involved in Latin American research. The Hispanic Research Center focuses on the Spanish-speaking population of the U.S. Faculty in all Romance languages are active in the Arizona Center for Medieval and Renaissance Studies, the Interdisciplinary Humanities Program, and the Interdisciplinary Committee on Linguistics.

Specific topics of faculty research are described below.

French. In addition to the presentation of the general range of French and Francophone civilization, language, and literature, faculty members are engaged in research projects on the following topics: interpretation; literary translation; stylistics; critical text and textbook preparation; the *chanson de geste*; medieval lyric poetry; Renaissance narrative (Rabelais, Marguerite de Navarre); classical aesthetics; the Philosophical Tale; the relationship of 19th-century literature, art, music, and criticism; the contemporary novel; Romanian authors in France; French African and French Canadian narrative; sociolinguistics and French syntax; 18th-century literature; philosophical approaches to literature and autobiography; French women in literature and art; French and Francophone film.

German. In addition to general coverage of German literary topics, faculty members are engaged in research on the following topics: literary theory and stylistics, Old Norse, the Baroque novel and drama, the epoch of Goethe and Schiller, Romanticism, Austrian literature, individual figures such as Kleist and Kafka, and women's role in German literature.

Spanish. In addition to broad coverage of Spanish and Spanish-American literary topics, particular regional emphases lie with the U.S. Southwest, Mexico, the Caribbean, the Andes, and the River Plate. Specific research projects by Spanish faculty members include topics in Chicano literature, literary translation, Hispanic literary bibliography, literary theory, Argentine narrative, contemporary Spanish poetry, Hispanic women writers, Latin American popular culture, prose narrative of the Golden Age, contemporary Spanish and Spanish-American theatre, Hispanic linguistics and bilingualism/sociolinguistics, and various topics in Brazilian literature.

FOREIGN LANGUAGES (FLA)

- FLA 515 Second Language Acquisition.** (3) S
Discussion and application of theories of second language acquisition. Prerequisite: FLA 400 or equivalent.
- FLA 525 Trends and Issues in Foreign Language Teaching.** (3) N
Advanced methods seminar, designed for experienced teachers.
- Omnibus Graduate Courses:** See page 51 for omnibus graduate courses that may be offered.

FRENCH (FRE)

- FRE 416 French Civilization II.** (3) S
Political, intellectual, social, economic, and artistic development of France from the 18th century to present. Prerequisite: 6 hours of upper-division French. *General Studies: HU, G.*
- FRE 421 Structure of French.** (3) F
Phonology, morphology, syntax, semantics, and varieties of French. Prerequisites: FRE 311 and 312 or instructor approval.
- FRE 422 Applied French Linguistics.** (3) S
Application of linguistic theory and second language acquisition theory to teaching of French. Prerequisite: ASB 480 or ENG 213 or FLA 400.
- FRE 423 French Syntax.** (3) F
The analysis of French syntactic structure by contemporary theoretical models. Prerequisite: ASB 480 or ENG 213 or FLA 400.
- FRE 424 French Phonology.** (3) S
Introduction to phonological theory and its application to French. Prerequisites: FRE 311 and 312 or instructor approval.
- FRE 441 French Literature of the 17th Century.** (3) N
From 1600 to 1660. Prerequisite: 9 hours of 300-level French, including FRE 321 or instructor approval. *General Studies: HU.*
- FRE 442 French Literature of the 17th Century.** (3) N
From 1660 to 1700. Prerequisite: 9 hours of 300-level French, including FRE 321 or instructor approval. *General Studies: HU, H.*
- FRE 445 French Literature of the 18th Century.** (3) N
Contributions of the philosophers and the development of the novel and drama. Prerequisite: 9 hours of 300-level French, including FRE 321 or instructor approval. *General Studies: L2/HU.*
- FRE 451 French Poetry of the 19th Century.** (3) N
From Romanticism to Parnassian poetry to Symbolism. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval.
- FRE 452 French Novel of the 19th Century.** (3) N
From Constant, Hugo, Balzac, Stendhal, and Sand to Flaubert and Zola, with emphasis on major literary movements. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval. *General Studies: HU.*
- FRE 453 Theater of the 19th Century.** (3) N
From Romantic drama to the Symbolist Theater. Representative plays of Hugo, Musset, Vigny, Dumas, Becque, Rostand, Feydeau, and Mirbeau. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval. *General Studies: L2/HU.*
- FRE 461 Preatomic Literature.** (3) F
Representative authors from Proust and Malraux to Sartre from 1900 to 1945. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval. *General Studies: HU.*
- FRE 462 Postatomic Literature.** (3) S
Representative authors including Camus, Duras, and Robbe-Grillet from 1945 to present. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval. *General Studies: HU.*

- FRE 471 The Literature of Francophone Africa and the Caribbean.** (3) N
Selected prose, poetry, and drama of black authors from Africa and the Caribbean. Prerequisite: 9 hours of 300-level French, including FRE 322 or instructor approval. *General Studies: L2/HU.*
- FRE 472 Franco-Canadian Civilization.** (3) S
A study of the civilization of Quebec in particular through its history, language, literature, music, and customs. Prerequisite: 9 hours of 300-level French or instructor approval.
- FRE 500 Bibliography and Research Methods.** (3) F
Required of all graduate students.
- FRE 510 Explication de Textes.** (3) N
Detailed analysis of literary texts.
- FRE 515 Intellectual Currents in France, from the Middle Ages to the 18th Century.** (3) N
Significant social, aesthetic, philosophic, and scientific ideas as presented by major writers of fiction and nonfiction.
- FRE 516 Intellectual Currents in France, from the 19th Century to the 20th Century.** (3) N
See FRE 515.

- FRE 521 History of the French Language.** (3) N
Principal phonological, morphological, and semantic developments of French from Latin to present, with emphasis on old and middle French. Some familiarity with Latin is recommended.
- FRE 531 Medieval French Literature.** (3) F
Readings in the epics, early drama, roman courtois, and other representative literary genres of the Middle Ages.
- FRE 535 French Literature of the 16th Century.** (3) S
Readings in French Renaissance literature with special attention to the humanist movement and to Rabelais, Montaigne, and the Pleiade.
- FRE 591 Seminar.** (3) N
Topics may be selected from the following:
- (a) Advanced Problems in French Literature
 - (b) Balzac
 - (c) Corneille, Molière, and Racine
 - (d) Diderot, Voltaire, and Rousseau
 - (e) Flaubert
 - (f) French Existential Literature
 - (g) French Literary Criticism
 - (h) Proust
 - (i) Realism and Naturalism
 - (j) Romanticism
 - (k) Stendhal and Zola

Omnibus Graduate Courses: See page 54 for omnibus graduate courses that may be offered.

GERMAN (GER)

- GER 421 German Literature.** (3) F
From the beginning to classicism. Prerequisite: 6 hours of 300-level German. *General Studies: HU.*
- GER 422 German Literature.** (3) S
From Romanticism to the present. Prerequisite: 6 hours of 300-level German. *General Studies: L2/HU.*
- GER 453 German Literary Masterpieces on Film.** (3) F, S, SS
Film and literature in their correlation to each other and to cultural, political, and social trends in German-speaking countries. Special arrangements for graduate students and those without a knowledge of German. Lecture, discussion. *General Studies: HU, G, H.*
- GER 500 Bibliography and Research Methods.** (3) N
Required of all graduate students.
- GER 511 German Stylistics.** (3) N
Art of writing literary German, comparative stylistics.
- GER 521 History of German Language.** (3) N
Linguistic development of German from the earliest records to the present.
- GER 523 German Drama.** (3) N
Drama of the 19th and 20th centuries.
- GER 525 German Novel.** (3) N
Special studies in the German novel.
- GER 527 The Novelle.** (3) N
Special studies in the German short story.

GER 531 Middle High German Language and Literature. (3) N
Reading and discussion of specimens of the Middle High German epics, romances, and other literary genres.

GER 551 Romanticism. (3) N
Treatment of early and late Romanticism.

GER 555 Modern German Literature. (3) N
Major works from the period of Expressionism to 1945.

GER 591 Seminar. (3) N
Special topics are concerned with a figure, theme, or work in German literature or Germanic studies. Topics may be selected from the following:

- (a) Faust
- (b) Germanic Studies
- (c) Goethe
- (d) Grass and Böll
- (e) Hesse
- (f) Kafka
- (g) Kleist
- (h) Schiller

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

SPANISH (SPA)

SPA 500 Bibliography and Research Methods. (3) F
Required of all graduate students.

SPA 536 Generation of 1898. (3) N
Works of Unamuno, Baroja, Azorín, and their contemporaries, studied against the ideological background of the turn of century in Spain. Prerequisite: SPA 325.

SPA 540 History of the Spanish Language. (3) S
Analysis and discussion of the development of Spanish from Vulgar Latin to the present day. Prerequisite: FLA 400 or equivalent.

SPA 541 Spanish Language in America. (3) F
Discussion and analysis of various regional and social varieties of Spanish in the Americas. Prerequisite: FLA 400 or equivalent.

SPA 542 Studies in the Spanish of the Southwest. (3) S
Examination of bilingualism and the social and regional dialects of Spanish in the Southwest. Prerequisite: FLA 400 or equivalent.

SPA 543 Structure of Spanish. (3) S
Analysis and discussion of data on selected topics in Spanish morphology, semantics, and syntax. Prerequisite: FLA 400 or equivalent.

SPA 545 Concepts of Literary Criticism. (3) S
Aims and methods of modern literary scholarship. Discussion of major theories of literary analysis.

SPA 555 Spanish American Modernism. (3) N
Principal works and figures of literary Modernism, 1880–1920, with emphasis on international literary context of the movement. Prerequisite: SPA 325.

SPA 557 Contemporary Spanish American Poetry. (3) N
Major works and problems in contemporary poetry and poetics, with emphasis on Paz, Parra, Cardenal, and new poetry since 1960. Prerequisite: SPA 325.

SPA 560 Medieval Spanish Literature. (3) N
Major figures and works of the Middle Ages in Spain.

SPA 561 Golden Age Spanish Prose Fiction. (3) N
Major figures and works of the 16th and 17th centuries, with emphasis on the picaresque novel.

SPA 562 Golden Age Spanish Poetry. (3) N
Major figures and works of the 16th and 17th centuries, with emphasis on lyric poetry.

SPA 563 Spanish Romanticism. (3) N
Principal figures and works of the Spanish Romanticism, with emphasis on international literary context of the movement.

SPA 564 19th-Century Spanish Prose Fiction. (3) N
Principal figures and works of Realism in the 19th-century novel, with emphasis on Galdós.

SPA 565 20th-Century Spanish Drama. (3) N
Principal figures and works of Spanish dramatic literature from the Generation of 1898 to the present.

SPA 566 Generation of 1927. (3) N
Major poets of the Generation of 1927, with emphasis on works of Lorca, Guillén, Salinas, and Aleixandre.

SPA 567 Contemporary Spanish Novel. (3) N
Major works of post-Civil War Spanish fiction.

SPA 568 Cervantes. (3) N
An extensive analysis of the prose and theater of Cervantes as a key figure of the Spanish Golden Age. Lecture, seminar.

SPA 570 Indigenous Literatures of Spanish America. (3) N
The indigenous literary traditions, with emphasis on Nahuatl, Mayan, and Quechua literatures through readings in Spanish translations.

SPA 571 Colonial Spanish American Literature. (3) N
The major figures and works from Conquest to Independence.

SPA 572 Spanish American Drama. (3) N
Major contributions of Spanish American drama, with emphasis on contemporary dramatists.

SPA 573 Spanish American Essay. (3) N
Major works of the essay, within the framework of intellectual history and literary movements.

SPA 574 Spanish American Vanguard Poetry. (3) N
Examination of poetic developments, 1920–1940, with emphasis on Huidobro, Vallejo, Neruda, and the international context of their works.

SPA 575 Contemporary Spanish American Novel. (3) N
Principal novels of the *Nueva Narrativa Hispanoamericana*, within the context of contemporary theories of the narrative.

SPA 576 Contemporary Spanish American Short Story. (3) N
Principal short stories of the *Nueva Narrativa Hispanoamericana*, within the context of contemporary theories of the narrative.

SPA 577 Regional Spanish American Literature. (3) N
The figures and works of major national (Peru, Argentina, Chile, and Mexico) and regional (Caribbean) literatures. Topics offered on a rotating basis. May be repeated for different topics.

SPA 578 Novel of the Mexican Revolution. (3) N
Representative works and authors of this genre (Guzmán, Azuela, Urquiza, Muñoz, and Romero), including related or peripheral offshoots in indigenous novels.

SPA 581 Latin American Popular Culture. (3) N
Studies in selected topics of Latin American popular culture, with emphasis on appropriate academic models for the critical analysis of these materials.

SPA 582 Studies in Latin American Film. (3) N
Examination of the role of film in contemporary Latin American culture; films viewed and analyzed as casebook examples. Seminar.

SPA 591 Seminar. (3) N
Spanish and Spanish American literary, cultural, and linguistic topics.

SPA 691 Figures and Works Seminar. (3) N
Topics may be selected from Spanish and Spanish American literatures.

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.

Law

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REGENTS' PROFESSORS

KAYE, MURPHY

PROFESSORS

ARTERIAN, BARTELS, BENDER, BERCH, CALLEROS, ELLMAN, FELLER, FURNISH, GREY, GUERIN, JONES, KADER, KARJALA, LESHY, LOWENTHAL, MATHESON, O'GRADY, ROSE, SCHROEDER, STANTON, STROUSE, TESÓN, TSOSIE, TUCKER, WEINSTEIN, WINER

ASSOCIATE PROFESSOR

BRENNAN

CLINICAL PROFESSIONALS

DALLYN, DAUBER

DIRECTORS

Center for the Study of Law, Science, and Technology

Strouse

Clinical Programs

O'Grady

Indian Legal Program

Tsosie

Legal Research and Writing and Academic Support

Stinson

For more information about the College of Law programs, see "College of Law," page 78.

LAW (LAW)

LAW 515 Contracts I. (3) F

Exploration of common law legal method and the structure of Article 2 of the U.C.C. in the context of issues of contract formation.

LAW 516 Criminal Law. (3) F

The substantive law of crimes.

LAW 517 Torts I. (3) F

Legal protections of personality, property, and relational interests against physical, economic, and emotional harms.

LAW 518 Civil Procedure I. (3) F

Exploration of the structure of a lawsuit and techniques of alternative dispute resolution. Specific topics include commencement of suit, joinder of parties, discovery, pretrial motions, and subject matter jurisdiction.

LAW 519 Legal Method and Writing. (2) F

Examination of methods used to analyze legal problems. Review of precedent statutory construction and basic res judicata problems. Use of basic legal writing formats.

LAW 520 Contracts II. (2) S

Continuation of Contracts I focusing on contract interpretation.

LAW 522 Constitutional Law I. (3) S

Role of courts in the federal system, distribution of powers between state and federal governments, and the role of procedure in litigation of constitutional questions.

LAW 523 Property I. (2) F

Indicia of ownership, found property, estates in land, landlord tenant.

LAW 524 Legal Research and Writing. (2) S

Continuation of LAW 519.

LAW 525 Torts II. (2) S

Continuation of Torts I with emphasis on strict and products liability.

LAW 526 Property II. (3) S

Nonpossessory interests in property (easements, covenants, servitudes), nuisance, land use planning, and transfers of interests in property.

LAW 527 Civil Procedure II. (3) S

Continuation of LAW 518; subjects in LAW 518 are addressed in greater depth as well as personal jurisdiction, res judicata, collateral estoppel, and choice of law under the *Erie* doctrine.

LAW 600 Administrative Law. (3) A

Administrative process, emphasizing nature of powers exercised by administrative agencies of government, problems of procedure, and scope of judicial review.

LAW 601 Antitrust Law. (3) A

Legislation and its implementation to prevent monopoly and business practices in restraint of trade, including restrictive agreements involving price-fixing, trade association activities, and resale price maintenance.

LAW 602 Partnership Taxation. (2-3) N

Federal tax consequences of forming, operating, terminating, or transferring partnerships.

LAW 603 Conflict of Laws. (3) N

Problems arising when the operative facts of a case are connected with more than one state or nation. Choice of law, bases of jurisdiction, effect of foreign judgments, and underlying federal and constitutional issues.

LAW 604 Criminal Procedure. (3) F, S

The nature of the criminal procedural system with special focus on constitutional protections for the accused.

LAW 605 Evidence. (3) A

Principles and practice governing the competency of witnesses and presentation of evidence, including the rules of exclusion and roles of lawyer, judge, and jury under the adversary system.

LAW 606 Federal Income Taxation. (3) F, S

Federal income tax in relation to concepts of income, property arrangement, business activity, and current tax problems, with focus on the process of tax legislation and administration.

LAW 607 Advanced Civil Procedure. (3) F, S

An overview of the structure and life cycle of a lawsuit from pleadings to appeal, emphasizing the Federal Rules of Civil Procedure.

LAW 608 Business Associations I. (3) A

Partnerships, limited partnerships, and small business corporations. Includes a brief introduction to accounting. Detailed analysis of the problems of forming a close corporation, state law duties of care and loyalty, management, dividends and redemptions, issuance of stock, internal dispute resolution, dissolution, and the general law of derivative actions.

LAW 609 Business Associations II. (3) A

Interrelationship of federal and state law and a brief introduction to corporate finance (1933 Act). A broad overview of large company regulations including reporting rules, proxy regulation, insider trading, sale of control, tender offers and takeovers, and going private. Prerequisite: LAW 608.

LAW 610 Advanced Criminal Procedure. (2-3) A

Topics in criminal procedure, with emphasis on legal constraints on grand jury investigations, police practices, pretrial release, preliminary hearings, prosecutorial discretion, and plea bargaining.

LAW 611 Estate Planning I. (3) N

Tax laws relating to transfer of wealth both at death and during lifetime, including federal estate tax, gift tax, and income taxation of estates and trusts.

LAW 612 Family Law. (3) A

Legal and nonlegal problems that an individual may encounter because of a situation as a family member.

LAW 613 Federal Courts. (3) N

Federal judicial system; relationship of federal and state law; jurisdiction of federal courts and their relation to state courts.

LAW 614 Labor Relations. (3) N

Collective bargaining, including the right of employees to organize and to engage in concerted activities; resolution of questions concerning the representation of employees; duty of employers and unions to bargain; administration and enforcement of collective bargaining agreements.

LAW 615 Public International Law. (3) A

Role of law in international disputes. Drafting and interpretation of treaties and multilateral conventions are considered.

LAW 616 Jurisprudence. (3) A

Introduction to legal philosophy, with readings on the nature of law and legal reasoning, the relationship between law and morality and equality and social justice.

LAW 618 Trusts and Estates I. (3) A

Substantive concepts involved in transmitting wealth, including inter-state succession, wills and will substitutes, the modern trust as a family protective device, creation of future interests in a planned estate, social restrictions of a nontax nature, and methods of devoting property to charitable purposes.

LAW 619 Commercial Law: Payment and Credit Systems. (3) F

The law of credit obligations and payment devices. Focuses on Articles 3, 4, and 4A of the Uniform Commercial Code.

LAW 620 Civil Rights Legislation. (2–3) N

Coverage of the rights and remedies provided by federal civil rights legislation, principally, the key provisions of the Reconstruction Era Civil Rights Acts, portions of the employment discrimination legislation, and voting rights legislation.

LAW 621 Commercial Law: Sales and Leases of Goods. (3) S

Advanced issues involving the formation and interpretation of sales and lease contracts. Focuses primarily on Articles 2 and 2A of the Uniform Commercial Code.

LAW 622 Commercial Law: Secured Transactions. (3) A

Secured transactions under Article 9 of the Uniform Commercial Code and other relevant sections. An overview of the creation, perfection, and priority effects of security interests. Financing of business enterprise and consumer credit.

LAW 623 Commercial Torts. (3) A

Involves an analysis of actionable wrongs against a business entity or against proprietary rights held by that entity, covering the entire spectrum of private remedies for competitive wrongs.

LAW 624 Community Property. (1–2) F, S

Property rights of husband and wife; the Arizona community property system; homestead.

LAW 625 Constitutional Law II. (3) F, S

Fundamental protection for person, property, political, and social rights.

LAW 627 Corporate Taxation. (3) A

Problems in taxability of the corporation, corporate distributions, and corporate reorganizations.

LAW 628 Creditor-Debtor Relations. (3) A

Creditors' remedies in satisfaction of claims and debtors' protection and relief under bankruptcy, other laws.

LAW 630 Employment Discrimination. (2–3) N

Focuses primarily on Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, and the Americans with Disabilities Act.

LAW 631 Environmental Law. (3) A

Litigation, administrative law, and legislation relating to problems of environmental quality. Topics covered may include air and water pollution, toxic substances, pesticides, and radiation.

LAW 632 Indian Law. (3) A

Inquiry into legal problems special to American Indians and tribes.

LAW 634 Judicial Remedies. (3) A

The nature and limits of injunctive, restitutionary, and compensatory remedies for the protection of personal, property, political, and civil rights.

LAW 635 Juvenile Justice System. (3) N

Special problems in the juvenile system.

LAW 636 Land Use Regulation. (3) A

Legal problems in the regulation and control of land development by state and local governments. Administration of zoning, subdivision, and other planning controls; issues of fairness and procedure in the utilization of such controls.

LAW 637 Lawyering Theory and Practice. (4) F, S

Issues of competency and professionalism in the practice of law.

LAW 638 Law and Ethics of Lawyering. (3) F, S

Emphasis on the Model Rules and Model Code that govern the professional responsibility of lawyers and their interpretation and application.

LAW 639 Natural Resource Law. (3) A

Examines the constitutional basis for federal land management and the different kinds of public lands management schemes (e.g., parks, forests, wildlife refuges), emphasizing acquisition of right to, and regulation of, the different uses of public lands and resources (e.g., mining, grazing, timber, wildlife habitat, recreation).

LAW 640 Securities Regulation. (2) A

Selected problems arising under the major statutes concerned with regulating the securities market.

LAW 641 State and Local Government. (2–3) N

Legal problems involved in the organization and administration of governmental units including the city, county, town, village, school district, and special district.

LAW 643 Water Law. (3) A

Acquisition of water rights; water use controls; interstate conflicts.

LAW 644 Intellectual Property. (3) A

The protection of intellectual property and encouragement of creativity—trade values, trade secrets, patents, copyrights, performing arts, and visual arts.

LAW 702 Alternative Dispute Resolution. (2–3) A

A broad exposure to methods of settling disputes in our society such as mediation, arbitration/conciliation, and negotiation, including examination of the current litigation model.

LAW 703 Law, Science, and Technology. (2–3) A

The legal mechanisms used in dealing with various issues raised by contemporary science and technology. Current legal responses to science and technology are explored.

LAW 705 Mass Communications. (2–3) A

An examination of First Amendment principles and statutory and regulatory requirements with respect to the conventional print and broadcast media, as well as recent technologies such as cable.

LAW 706 Immigration Law. (2–3) N

Exploration of political, economic, social, and legal issues concerning immigration. Specific topics covered include citizenship and naturalization, denaturalization, deportation, and refugee rights and asylum.

LAW 709 International Human Rights. (2–3) N

International rules and procedures governing the protection of human rights.

LAW 710 Real Estate Tax Planning. (2–3) A

Discussion of topics, including but not limited to real estate investments as tax shelters, alternative acquisition finance devices, refinancing techniques, and nontaxable exchanges.

LAW 711 Real Estate Transfer. (2–3) A

An examination of the legal aspects of the sale and purchase of real property encompassing three areas: the role of the lawyer and broker in the transaction, the sales contract, and issues relating to title protection.

LAW 712 Religion and the Constitution. (2–3) A

An in-depth study of the "establishment" and "free exercise" clauses of the First Amendment to the U.S. Constitution.

LAW 714 Law and Social Science. (2–3) N

Investigation of the use of social science research and methods in the legal system. Topics include psychology of eyewitness identification, social-psychological studies of decision making, statistical evidence of discrimination, econometric studies of the deterrent effects of capital punishment, and clinical predictions of violent behavior.

LAW 715 Professional Sports. (2–3) N

Unique legal problems relating to professional sports, including their relationship to antitrust laws, the nature of player contracts, and associated tax problems.

LAW 717 Legislative Process. (2–3) N

Explore both the legal and the practical context within which the legislative process operates with a major component of the course being a legislative drafting project.

LAW 721 Education and the Law. (2–3) N

Current legal problems affecting institutions of higher education, faculty, students, and governing boards.

LAW 733 Negotiation, Mediation, and Counseling. (3) A

Explores alternative models of negotiated dispute resolution, as well as the roles of lawyer and client in the negotiation process. Extensive use of simulation exercises.

LAW 735 Estate Planning II. (2–3) N

Preparation of actual estate plans and implementing legal documents for a variety of typical private clients. Both tax and nontax elements in preparation of the plans are considered. Prerequisite: LAW 611.

LAW 736 Planning for the Business Client. (2–3) N

Planning transactions involving business organizations with special emphasis on income tax and corporate considerations.

LAW 738 Trial Advocacy. (2–3) F, S

Students confront issues of trial advocacy through simulation of a variety of aspects of trial practice in a mock court setting. Prerequisite: LAW 605.

LAW 745 The Supreme Court. (2–3) A

Intensive examination of selected current decisions of the U.S. Supreme Court.

LAW 768 International Business Transactions. (2–3) N

Problems and policy considerations involved in international trade; tariffs, international monetary controls, and development loans.

LAW 770 Law Journal. (1–3) F, S

Academic credit for successful completion of work by a member of the staff of *Arizona State Law Journal*; maximum of 5 semester hours.

LAW 772 Public Defender Clinic. (1–6) F, S, SS

Placement in the Public Defender Clinic and related classroom component. Prerequisite: LAW 605.

LAW 773 Law School Clinic. (1–6) F, S, SS

Placement in the Law School Clinic and related classroom component. Prerequisite: LAW 605.

LAW 774 Prosecutor Clinic. (1–6) F, S, SS

Placement in Prosecutor Clinic and related classroom component. Prerequisite: LAW 605.

LAW 780 Moot Court. (1–3) F, S

Academic credit for successful completion of work as a member of the Moot Court Board of Directors; maximum of 3 semester hours.

LAW 781 Individual Study. (1) F, S, SS

With the approval of a faculty member, a student may research a legal subject of special interest and prepare a paper suitable for publication.

LAW 782 Individual Study. (2) F, S, SS

See LAW 781.

LAW 783 Individual Study. (3) F, S, SS

See LAW 781.

LAW 784 Moot Court Competition. (1–4) F, S

Successful participation and completion of a national moot court competition.

LAW 785 Externship. (1–12) F, S, SS

Supervised, practical lawyering in an external placement proposed by the student or established by a sponsoring agency and approved by the College of Law. In addition, an associated academic component is established by the student with a member of the faculty.

LAW 791 Seminar in Law. (1–12) F, S

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.



Waterfall and palms at ASU Research Park

Tim Trumble photo

Learning and Instructional Technology

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REGENTS' PROFESSORS

BERLINER, KULHAVY

PROFESSORS

BLANCHARD, FREEMAN, KLEIN, SULLIVAN

ASSOCIATE PROFESSOR

SAVENYE

CLINICAL ASSISTANT PROFESSOR

STAMM

The faculty in the Division of Psychology in Education offer graduate programs leading to the M.A., Master of Education, and Ph.D. degrees in Learning and Instructional Technology.

The graduate programs leading to a degree in Learning and Instructional Technology prepare students for a variety of positions consistent with their professional goals. Most doctoral graduates of the program accept appointments as university faculty members, training managers in business, industry, and government, or instructional designers in universities and community colleges. Potential employment opportunities for master's degree graduates include positions as training specialists in business, industry, and government, as educational designers in educational agencies, or as classroom teachers.

Applicants for admission to M.A. and Ph.D. degree programs in Learning and Instructional Technology must submit scores for the Graduate Record Examination (GRE). Master of Education program applicants must submit scores for either the GRE or the Miller Analogies Test.

MASTER OF ARTS

At the master's level, students may specialize in instructional design and development or training and development. A minimum of 30 semester hours is required for the master's degree programs.

See "Master's Degrees," page 98, for general requirements.

MASTER OF EDUCATION

For information on the Master of Education degree, see "Master of Education," page 174.

DOCTOR OF PHILOSOPHY

At the doctoral level, students may specialize in one of two concentrations: learning or instructional technology. All application materials should be received at least three

months prior to the semester in which the applicant wishes to begin study.

See "Doctor of Philosophy," page 101, for information on the Ph.D. degree.

RESEARCH ACTIVITY

Faculty maintain an active program of research and development that has been supported with funds from federal agencies and the university. General research areas include investigations dealing with instructional effectiveness and educational motivation. Doctoral students participate actively in research and development activities as an integral part of their degree programs. Learning research includes studies of spatial cognition, organization and memory for prose materials, knowledge structures, the effects of extra linguistics factors on learning and memory, and training research and evaluation.

LEARNING AND INSTRUCTIONAL TECHNOLOGY (LNT)

LNT 501 Foundations of Educational Technology. (3) F, S
 Introduction to instructional development. An examination of accomplishments and problems in the field.

LNT 502 Design and Development of Instruction. (3) F, S
 Design, development, and formative evaluation of objectives-based instructional materials.

LNT 503 Research Techniques for Instructional Development. (3) F
 Procedures for analyzing the effects of alternative instructional practices.

LNT 504 Educational Evaluation. (3) S
 Evaluation procedures in instruction and training.

LNT 510 Essentials of Classroom Learning. (3) F, S, SS
 Theoretical and empirical foundations of learning in the classroom milieu. Critical exposure to research and method in instructional psychology. Cross-listed as EDP 510. Credit is allowed for only EDP 510 or LNT 510.

LNT 520 Development of Technology-Based Interactive Instruction. (3) S
 Procedures for developing effective instructional and training programs for delivery by computer. Lecture, lab. Prerequisite: LNT 502.

LNT 530 Educational Technology and Training. (3) S
 Applications of educational technology to training and performance systems in business and industry. Lecture, lab. Prerequisites: LNT 501, 502, 540.

LNT 540 Theoretical Views of Learning. (3) F, S
 Classical and cognitive theories of learning, plus recent orientations. Illustrative experimental and rational foundations; implications for educational practice. Cross-listed as EDP 540. Credit is allowed for only EDP 540 or LNT 540.

LNT 542 The Psychology of Learning and Instruction. (3) S
 Critical review and evaluation of research on learning variables relevant to acquisition and retention of instructional materials. Lab. Cross-listed as EDP 542. Credit is allowed for only EDP 542 or LNT 542.

LNT 545 Foundational Studies in Language and Learning. (3) S
 Historical developments in research relating cognitive models to the instructional process in language learning. Prerequisites: EDP 552; LNT 540 or instructor approval.

LNT 584 Educational Technology Internship. (1-6) F, S, SS
 Prerequisites: LNT 501, 502; instructor approval. Pre- or corequisite: EMC 521.

LNT 780 Advanced Instructional Development. (1-3) S
 Conducting and documenting selected instructional development activities. Prerequisites: LNT 502; instructor approval.

LNT 792 Advanced Instructional Research. (3) F
 Design and execution of instructional research on selected topics. Prerequisites: LNT 503; instructor approval.

Omnibus Graduate Courses: See page 51 for omnibus graduate courses that may be offered.