PSYCHOLOGY

PSY

Department of Psychology College of Social Science

Introductory Psychology

Fall, Spring, Summer. 4(4-0)

Mind and behavior from biological, individual, and social perspectives. Scientific and professional aspects of psychology.

Cognitive Psychology 200

Fall, Spring, Summer. 3(3-0) P: PSY 101 Concepts, theories, methods, and research findings in human information processing. Attention, perception, memory, problem solving, decision making, and language comprehension and production.

209 **Brain and Behavior**

Fall, Spring. 3(3-0) P: PSY 101

Relation of structure and function of the nervous system to the biological bases of behavior.

Social Psychology

Fall, Spring, Summer. 3(3-0) P: PSY 101 Not open to students with credit in SOC 241.

Major topics, theories, and research findings in social psychology, particularly as viewed from a psychological perspective.

Personality 236

Fall, Spring, Summer. 3(3-0) P: PSY 101 Theories of personality, assessment techniques, and research on personality functioning and individual differences in interpersonal behavior. Emphasis on normal behavior.

244 **Developmental Psychology: Infancy** Through Childhood

Fall, Spring, Summer. 3(3-0) P: PSY 101 Physical, cognitive, emotional, and social development from infancy through childhood.

Industrial and Organizational Psychology

Spring, Summer. 3(3-0) P: PSY 101

Recruitment, selection, and training of personnel. Performance appraisal, leader behavior, worker attitudes and behavior, communication, group organization, and processes in the workplace.

Community Psychology Fall. 3(3-0) P: PSY 101 270

Theory and research in community psychology. Prevention, social change, dissemination models, empowerment, and measurement models.

Abnormal Psychology 280

Fall, Spring, Summer. 3(3-0) P: PSY 101 Theory and research on dynamics, characteristics, and treatment of psychological disorders. Therapies and theories of prevention.

290 **Exploring and Planning for Careers in** Psychology

Fall, Spring. 3(2-2) P: (PSY 101) and completion of Tier I writing requirement R: Open to undergraduate students in the Department of Psychology.

Introduction to career options for psychology majors. Development of career preparation and career seeking skills

295 Data Analysis in Psychological Research

Fall, Spring, Summer. 3(3-0) P: PSY 101 and (MTH 110 or MTH 112 or MTH 114 or MTH 116 or MTH 124 or MTH 132 or MTH 152H or MTH 201 or STT 200 or STT 201) Not open to students with credit in STT 315

Descriptive and inferential statistics as applied to the analysis of psychological research. Measurement, control, and research design with psychological variables. Data analysis. Interpreting research findings. Relations between research and theory.

301 **Cognitive Neuroscience**

Fall. 3(3-0) P: PSY 101 RB: PSY 200

Neural basis of human cognitive functions. Investigative methods for understanding the relationship of brain activity and behavior.

Psychology and Biology of Human 310 Sexuality

Spring of even years. 3(3-0) Interdepartmental with Integrative Biology and Neuroscience. Administered by Neuroscience. P: (PSY 101 or concurrently) and ((BS 161 or concurrently) or (BS 162 or concurrently) or (LB 144 or concurrently) or (LB 145 or concurrently) or (BS 181H or concurrently) or (BS 182H or concurrently)) Not open to students with credit in HDFS 445.

Sexual behavior from biological, psychological and neuroscience perspectives. Sexual differentiation of the body. Role of hormones in development and reproduction in humans and other animals. Human sexual orientation. Fertility and contraception. Sexual disorders. Sexually transmitted diseases.

Introduction to Clinical Psychology 312

Fall. 3(3-0) P: PSY 101

History, theories, and clinical approaches to understanding and affecting human behavior

Children's Exposure to Domestic 316 **Violence: Promoting Resiliency**

3(3-0) Interdepartmental with Women's Studies. Administered by Psychology. P: PSY 101 RB: WS 201 or WS 202 or WS 203

Prevalence, context and impact of domestic abuse on children. Strategies for promoting resiliency.

Sexual Assault: Context, Interventions and Prevention

Summer. 3(3-0) Interdepartmental with Women's Studies. Administered by Psychology. P: PSY 101 RB: WS 201 or WS 202 or WS 203 or WS 301

Nature and context of adult sexual assault in the United States. Current interventions and prevention efforts

320 **Health Psychology**

Fall, Spring. 3(3-0) P: PSY 101

Social. psychological, and biological factors affecting health, illness, and use of health services. Stress and coping processes, lifestyles, and illness manage-

The Neurobiology of Food Intake and 333 Overeating

Spring. 3(3-0) Interdepartmental with Neuroscience. Administered by Psychology. P: PSY 101 RB: PSY 209

Physiological and neurological mechanisms that drive food intake and overeating. Vulnerabilities to obesity.

339 **Psychology of Women**

Fall. 3(3-0) Interdepartmental with Women's Studies. Administered by Psychology. P: PSY 101 SA: PSY 239

Development and implications of sex-typed behavior and sex differences. Women's decisions about and experiences of menstruation, sexuality, motherhood, relationships, achievement, employment, retirement.

342 Stereotypes, Prejudice, and Discrimination

Spring. 3(3-0) P: PSY 101 RB: PSY 235

Cognitive processes in stereotyping. Contribution of affect and motivation to the linkages among stereotypes, prejudice, and discrimination.

Psychological Innovations and Research 371

Fall, Spring, Summer. 4(2-4) P: PSY 101 RB: To receive credit in PSY 371, the student must satisfactorily complete Psychology 372 unless there is an exception given by the instructor. R: Approval of department; application required.

First course of two-semester sequence. Theoretical and technical background and direct involvement in a major psychological innovation or research project.

Psychological Innovations and Research II

Fall, Spring, Summer. 4(2-4) P: PSY 371 Second course of a two-course sequence. Theoretical and technical background and direct involvement in a major psychological innovation or research pro-

381

Internship Training in Psychology Spring. 3(3-0) P: PSY 101 RB: At least two courses in the range from PSY 200-280. R: Approval of department; application required.

Theoretical and practical background to engage in effective internship delivery.

382 Internship in Psychology

Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: PSY 101 R: Approval of department; application required.

Internship employing knowledge and skills acquired in psychology courses.

395 Research Design and Measurement in Psychological Research

Fall, Spring, Summer. 3(2-2) P: PSY 295 SA: PSY 304

Validity and reliability concepts in psychological measurement and causal inference. Experimental design in psychological research.

Expertise and Skill (W) 401

Fall. 3(3-0) P: PSY 200 and ((PSY 295 or STT 231) and completion of Tier I writing requirement)

Contemporary models of expertise and skill acquisition and the role of basic cognitive abilities and capacities in complex performance.

Sensation and Perception (W) 402

Fall. 3(3-0) P: (PSY 200 or PSY 209) and ((PSY 295 or STT 231) and completion of Tier I writing requirement)

Biological and psychological approaches to the study of the extraction, representation, and interpretation of sensory information. Review of major methodologies. Emphasis on vision.

History of Modern Psychology (W) 405

Spring. 3(3-0) P: (PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychol-

Themes, periods, and contributions of the leading psychologists. Psychological systems such as behaviorism, cognition, and psychoanalysis. Evolution of psychological concepts. Social context.

409 Psychobiology of Behavioral Development (W)

Spring. 3(3-0) P: (PSY 209 or ZOL 402) and ((PSY 295 or STT 231) and completion of Tier I writing requirement)

Biological approaches to the understanding of behavioral development in human and non-human animals. Role of the nervous system in this process.

410 **Neuroscience of Learning and Memory**

Fall. 3(3-0) P: (PSY 200 or PSY 209 or PSY 301 or ZOL 402) and ((PSY 295 or STT 231) and completion of Tier I writing requirement) SA: PSY 308

Neural mechanisms responsible for learning and memory.

411 Hormones and Behavior (W)

Spring. 3(3-0) P: (PSY 209 or ZOL 402) and ((PSY 295 or STT 231) and completion of Tier I writing requirement)

Current research on biological mechanisms that control motivation in humans and non-human species.

413 Laboratory in Behavioral Neuroscience

Fall. 4(2-4) Interdepartmental with Integrative Biology. Administered by Psychology. P: (PSY 209 or IBIO 402) and ((PSY 295 or STT 231) and completion of Tier I writing requirement) SA: PSY 309

Theory and laboratory experience in the study of behavioral neuroscience. Relationship among hormones, brain, and behavior.

Child and Family Psychopathology (W) 424

Fall, Spring, Summer. 3(3-0) P: (PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychology.

Description, etiology, and developmental patterns of behavior problems of children, adolescents, and their families. Child and family interventions.

Attitudes and Social Cognition (W)
Fall of even years. 3(3-0) P: (PSY 235 and PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychology.

Psychological research on the cognitive foundations of social behavior. Attribution, stereotyping, impression formation, social memory, and persuasion.

444 **Developmental Psychology:** Adolescence Through Youth (W)

Fall. 3(3-0) P: (PSY 101 and PSY 244 and PSY 295) and completion of Tier I writing requirement SA: PSY 344

Theory and research in physical, cognitive, emotional, and social development from puberty to early adulthood.

455 **Advanced Topics in Organizational** Psychology (W)

Spring. 3(3-0) P: (PSY 255 and PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychology or in the Interdisciplinary Studies in Social Science major.

Applied research related to human resource issues in work organizations. Selection, training, motivation, leadership, and organizational change.

Introduction to Cognitive Science

Fall. 3(3-0) Interdepartmental with Linguistics

and Philosophy. Administered by Linguistics.
Cognitive processing of information by animals, humans, and computers. Relevant issues in philosophy, linguistics, psychology, neurophysiology, and artificial intelligence.

Personality Theories (W)

Spring of odd years. 3(3-0) P: (PSY 236 and PSY 295) and completion of Tier I writing requirement R: Open to juniors or seniors in the Department of Psychology.

Major personality theories of development, structure, and dynamics. Implications for behavioral disorders

Special Problems in Psychology

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. A student may earn a maximum of 12 credits Students are limited to a combined total of 12 credits in PSY 490 and PSY 491. R: Approval of department; application required.

Students work under direction of a faculty member on an experimental, theoretical, or applied problem.

Participation in Psychological Project

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. A student may earn a maximum of 12 credits Students are limited to a combined total of 12 credits in PSY 490 and PSY 491. R: Approval of department; application required.

Students participate in a psychological project under direction of a faculty member.

Special Topics in Psychology

Fall, Spring. 1 to 3 credits. P: PSY 101 and PSY 295

Special topics supplementing regular course offerings proposed by faculty.

Issues in Psychology (W)

Fall, Spring. 3(3-0) P: PSY 101 and ((PSY 295 or STT 231) and completion of Tier I writing requirement)

Current information, research, and practice in psy-

498H **Development of Research Proposal**

Fall, Spring, Summer. 3(0-6) R: Approval of

Independent research with faculty supervision. Literature survey, naturalistic observation, and experimental investigation. Preparation of the proposal for the Senior Honors Thesis.

Senior Honors Thesis

Fall, Spring, Summer. 3(0-6) P: PSY 498H R: Approval of department.

Continuation of independent research with faculty supervision. Completion of senior honor thesis

801 Sensation and Perception

Fall. 3(3-0) RB: (PSY 401) or approval of department. R: Open to graduate students in the Department of Psychology.

Biological and psychological approaches to the study of extraction, representation, and interpretation of sensory information. Review of major methodologies. Emphasis on vision.

Basic Cognitive Processes

Fall. 3(3-0) R: Open only to graduate students in the Department of Psychology or Interdepartmental Graduate Specializations in Cognitive Science or approval of department. SA· PSY 810

Advanced exploration of methods used to study human cognition as applied to sensory processes, perception, attention, memory, and control of action

Higher Order Cognitive Processes

Spring. 3(3-0) R: Open only to graduate students in the Department of Psychology or Interdepartmental Graduate Specializations in Cognitive Science or approval of department. SA: PSY 810

Advanced exploration of inductive and deductive reasoning, categorization, analogy, decision making, and problem solving

Molecular and Developmental 804 Neurobiology

Fall. 3(3-0) Interdepartmental with Neuroscience and Pathobiology and Diagnostic Investigation and Pharmacology and Toxicology and Integrative Biology. Administered by Neuroscience. RB: Bachelor's degree in a Biological Science or Psychology. R: Open to graduate students in Neuroscience major.

Nervous system specific gene transcription and translation. Maturation, degeneration, plasticity, and repair in the nervous system.

History of Psychology

Spring. 4(4-0) R: Open only to graduate students in the Department of Psychology.

Scientific, cultural, philosophical, and personal influences in the development of psychology. Persisting

809 **Developmental Psychobiology**

Fall of odd years. 3(3-0) RB: (PSY 409) or approval of department. R: Open only to graduate students in the Department of Psy-

chology.

Basic principles of neural development over the life span.

811 **Advanced Behavioral Neuroscience**

Spring. 3(3-0) Interdepartmental with Neuroscience. Administered by Psychology. RB: (PSY 411) or approval of department. R: Open only to graduate students in the Psychology major or Neuroscience major.

Biological mechanisms involved in learning and memory, motivated behaviors, biological rhythms, and psychopathologies.

Quantitative Research Design and Analysis in Psychology

Fall. 3(2-2) R: Open to graduate students in

the Department of Psychology.

Experimental and non-experimental research designs. Analysis of variance and multiple regression.

818 **Psychometric Theory and Test** Construction

Spring. 3(3-0) RB: PSY 817 R: Open only to graduate students in the Department of Psy-

Classical and item response theory approaches to test development. Validation of measures.

Personality Assessment

Spring. 3(3-0) RB: PSY 828 R: Open to graduate students in the Department of Psychology or approval of department.

Psychometrics, clinical techniques, multimethod assessment measures including the MMPI, NEO-PI-R, PAI, TAT, IIP, Rorschach.

834

Social Psychology Fall of even years. 3(3-0) R: Open to graduate students in the Department of Psychology. Not open to students with credit in SOC

Classic and contemporary theoretical and empirical issues in social psychology.

835 Research Methods: Interpersonal and **Individual Behavior**

Spring. 3(2-2) RB: PSY 815 or concurrently R: Open only to graduate students in the Department of Psychology.

Strategies and tactics for conducting systematic empirical research on complex human functioning. Social and clinical phenomena.

Personality Psychology 836

Fall of odd years. 3(3-0) R: Open only to graduate students in the Psychology major or approval of department.

Classic and contemporary theoretical and empirical issues in personality psychology.

837 **Social Cognition**

Spring of even years. 3(3-0) RB: 15 credits of social sciences. R: Open only to graduate students in the Psychology major or approval of department. SA: PSY 842A

Research on cognitive mediators of social behavior and life outcomes. Attribution, person perception, stereotyping, attitudes, and social memory.

838 Interpersonal Behavior and Relationships

Fall of even years. 3(3-0) RB: 15 credits in the social sciences. R: Open only to graduate students in the Psychology major or approval of department. SA: PSY 842B

Theory and empirical research on interpersonal processes. Social comparison, social support, self-evaluation, relationship development and dissolution, attraction, and love.

839 **Systems Neuroscience**

Spring. 4(4-0) Interdepartmental with Human Anatomy and Neuroscience and Pharmacology and Toxicology and Physiology and Integrative Biology. Administered by Neuroscience. R: Open only to graduate students in the Colleges of Human Medicine, Osteopathic Medicine, Agriculture and Natural Resources, Natural Science, Social Science, and Veterinary Medicine. SA: ANT 839

Anatomy, pharmacology, and physiology of multicellular neural systems. Sensory, motor, autonomic, and chemo-regulatory systems in vertebrate brains.

841 **Evolutionary Psychology**

Spring of even years. 3(3-0) R: Open to graduate students in the Department of Psychology or approval of department.

The nature and causes of human social behavior and cognition. The evolution, function, strategic logic, and psychology of topics such as family and friendship, sexuality and romance, aggression and warfare, cooperation and conflict, politics, religion, and moral judgment.

843 Stereotyping, Prejudice and Discrimination

Spring of odd years. 3(3-0) R: Open to graduate students in the Department of Psychology or approval of department.

Major theoretical perspectives and methodological issues surrounding the psychology of stereotyping, prejudice, and discrimination within modern society.

Cognitive and Neuropsychological Assessment

Fall. 3(3-0) R: Open to graduate students in the Department of Psychology.

Instruction in basic administration and interpretation of cognitive and neuropsychological tests across the

Behavior Disorders

Fall. 3(3-0) R: Open only to graduate students in the Department of Psychology.

Classification, description, and etiology of behavior disorders. Conceptual models, epidemiology, and review of major diagnostic classification systems.

Industrial and Organizational Psychology Fall. 3(3-0) R: Open only to graduate students in the Department of Psychology.

Theory, research, and practice in organizational training, development, and behavior.

Seminar in Cognitive Science 863

Fall, Spring. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course. RB: Prior or current graduatelevel work in at least one cognitive science related field

Contemporary issues, problems, theories, and data in cognitive science, seen from a variety of perspectives

864 Personnel Selection

Spring of odd years. 3(3-0) R: Open only to graduate students in the Psychology major.

Methods and research in personnel selection. Job

analysis, performance appraisal, and development of predictors. Evaluating validity, reliability, and utility of selection procedures.

Research Methods in Applied 865 **Psychology**

Fall. 3(3-0) RB: PSY 815 R: Open only to graduate students in the Department of Psychology major.

Human resource issues and applied research. Measurement problems and issues. Planning, conducting, analyzing, and disseminating applied research.

Nature and Practice of Cognitive Science

Spring. 3(3-0) Interdepartmental with Computer Science and Engineering and Integrative Biology and Linguistics and Philosophy. Administered by Integrative Biology. RB: Undergraduate course work in behavioral biology, cognitive psychology, philosophy, linguistics, or artificial intelligence. SA: ZOL 867

Survey of how different disciplines explore the cognitive processes underlying intelligent behavior.

870 **Ecological-Community Psychology**

Fall. 3(3-0) RB: PSY 815 or concurrently R: Open only to graduate students in the Department of Psychology.

Theory, methodology and research in experimental ecological approaches to community psychology. Identifying researchable problems and funding. The dynamics of research teams.

History and Theory in Ecological-Community Psychology Fall. 3(3-0) RB: PSY 815 or concurrently R:

Open only to graduate students in the Department of Psychology.

Theoretical perspectives, contemporary problems, philosophies of science, and ethical issues facing the ecological psychologist.

Field Research in Psychology

Spring. 3(2-2) RB: PSY 815 R: Open only to graduate students in the Department of Psy-

Unobtrusive, observational, and interview measures. Policy analysis, proposal preparation, and research

Community Interventions 873

Spring. 3(2-2) RB: PSY 815 and PSY 870 and PSY 871 R: Open only to graduate students in the Department of Psychology.

Entry and operational issues in community interventions and research. Group dynamics, community politics, intervention integrity.

Foundations of Evaluation Practice 880

Fall. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

History, professional roles and contexts, practice standards, and central theories of program evaluation

Evaluation Design

Fall. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Fundamentals of designing formative and summative evaluations

882 **Evaluation Data Collection Methods**

Fall. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Data collection for program evaluation

Statistics for Evaluators I 883

Spring. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Quantitative evaluation data preparation and management. Descriptive and inferential statistics, including correlation and regression and their application to evaluation data. Interpreting and reporting statistics for evaluation audiences.

Qualitative and Mixed Method Evaluation

Spring. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Qualitative and mixed method designs and analytic techniques for program evaluation.

885 Communicating and Reporting

Spring. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Communicating and reporting program evaluation activities and findings. Generating and communicating recommendations. Techniques to facilitate deliberative dialogue about evaluation findings. Written, verbal, and listening skills.

886 Evaluation Practicum Preparation

Spring. 1 credit. R: Open to graduate students in the Department of Psychology or approval of department.

Identifying potential placements. Resume and cover letter development. Interviewing skills and establishing a practicum contract.

887 Statistics for Evaluators II

Summer. 3 credits. P: PSY 883 R: Open to graduate students in the Department of Psychology or approval of department.

Inferential statistics, including t-tests, analysis of variance, and non-parametric statistics and their application to evaluation data. Handling missing data, power analysis, and other statistical tools for evaluators

888 Evaluation Management

Fall. 3 credits. R: Open to graduate students in the Department of Psychology or approval of department.

Evaluation project management, budgeting, and quality assurance. Professional job search skills.

889 Evaluation Practicum

Fall, Summer. 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: PSY 886 R: Open to graduate students in the Department of Psychology or approval of department.

Supervised practicum placement in a professional evaluation setting. Integration and application of theories, methods, and skills in evaluation practice.

890 Special Problems in Psychology

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to graduate students in the Department of Psychology.

Supervised student research on an experimental, theoretical, or applied problem.

891 Special Topics in Psychology

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open to graduate students. Approval of department.

Supervised student engagement in an experimental, theoretical or applied topic.

899 Master's Thesis Research

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 35 credits in all enrollments for this course. R: Open only to graduate students in the Department of Psychology.

Master's thesis research.

926 Scientific and Professional Ethics

Spring of odd years. 3(3-0) R: Open to graduate students in the Department of Psychology.

Ethical issues in human and animal research. Ethical decisions involving issues of gender, ethnicity, and cultural diversity in psychological practice.

952 Psychodynamic Theory, Research and Intervention Across the Life Span

Spring of even years. 3(3-0) RB: (PSY 853 and PSY 854) and graduate courses in behavior disorders. R: Open to graduate students in the Department of Psychology. Psychodynamic theories. Research on psychodynamic theoretical concepts and interventions. Intervention concepts, techniques, and types.

954 Cognitive-Behavioral Theory, Research, and Intervention Across the Life Span

Spring of odd years. 3(3-0) RB: Course(s) in behavioral disorders. R: Open to graduate students in the Department of Psychology.

Theories, techniques, and empirical bases of behavioral and cognitive-behavioral psychotherapy.

961 Training and Organizational Development

Spring of odd years. 3(3-0) RB: PSY 860 R: Open only to graduate students in the Department of Psychology.

Theory and research on identification, development, and evaluation of training activities in organizations. Analysis of organizational functioning and change.

962 Work Motivation and Job Satisfaction

Fall of odd years. 3(3-0) RB: PSY 860 R: Open only to graduate students in the Department of Psychology. General theories of human motivation, attitudes, and

General theories of human motivation, attitudes, and affect. Specific theories of work motivation and job satisfaction

970 Advanced Topics in Ecological and Community Psychology

Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in the Department of Psychology.

Contemporary ecological and community psychology issues. Program evaluation, systems analysis. Empowerment, social support, and homelessness.

992 Seminar in Psychology

Fall, Spring. 3(3-0) A student may earn a maximum of 24 credits in all enrollments for this course. R: Open to graduate students in the Department of Psychology.

Theoretical and research topics in psychology.

994 Practicum

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 18 credits in all enrollments for this course. R: Open only to graduate students in the Department of Psychology.

Clinical assessment, consultation, and psychotherapy. Supervised experience in assessment, consultation, and psychotherapy with adults, families, and children. Didactic seminar in related theory and research

999 Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open to doctoral students in the Department of Psychology.

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Doctoral dissertation research.