ANTHROPOLOGY

ANP

Department of Anthropology College of Social Science

101 Introduction to Anthropology

Fall, Spring, Summer. 3(3-0)

Human culture worldwide and throughout human history. Major subfields, methods, theories, and issues. World cultural diversity. Culture and world problems.

Navigating Another Culture (D) 200

Fall, Spring, Summer. 2(0-4)
Understanding how cultural differences shape perspectives and behavior. Adapting to a new cultural setting.

201 Sociocultural Diversity

Fall, Spring, Summer. 3(3-0)

Origins and diversity of cultural systems. Theories of culture. Patterns of kinship. Religious, economic, and political institutions.

Biocultural Evolution

Fall, Spring, Summer. 3(3-0)

Nature and function of culture and its relationship to human biology. Principles of change from hominid origins to present.

203 Introduction to Archaeology

Fall, Spring. 3(3-0) SA: ANP 360

Theory, methodology, and techniques of archaeology. Applications to questions about past human behavior. History and concepts of archaeology as an anthropological subdiscipline.

Gender Relations in Comparative 220 Perspective

Spring. 3(3-0)

Gender relations in different cultures. Economic and domestic division of labor between the sexes as a factor underlying power differentials.

264 **Great Discoveries in Archaeology**

Spring. 3(3-0)

Great discoveries in archaeology that have captured the public's imagination and shaped Western thought, from Olduvai Gorge and Stonehenge to Macchu Pichu.

Women and Health: Anthropological and 270 International Perspectives

Fall. 3(3-0)

Cross cultural perspectives on the health implications of differing life circumstances for women. Women as health-care consumers and providers. Health and women's life cycles.

280 The Anthropological Film

Spring. 3(3-0)

Ethnographic film as a record of vanishing cultures, a tool for ethnological analysis, and a source of perspectives on different cultures and variability within cultures.

320 Social and Cultural Analysis

Fall, Spring. 4(4-0) P: (ANP 101 or ANP 201) or completion of Tier I writing require-

Major theoretical traditions of cultural anthropology. Functionalism, symbolism, structuralism, and contemporary developments.

321 **Anthropology of Social Movements**

Fall. 3(3-0) P: ANP 101 or ANP 201

social movements within different cultures around the world organize, create or impede change on the basis of class, religion, race, ethnicity, language, and territory.

Peasants and Social Change in the 322 **Developing World**

Spring. 3(3-0) P: ANP 101 or ANP 201 Cross-cultural perspective on patterns and variations in peasant systems worldwide. Social mechanisms with which they respond to change.

Race, Ethnicity, and Nation: Anthropological Approaches to Collective Identity

Spring. 3(3-0) P: ANP 101 or ANP 201 or ISS 215 Not open to students with credit in SOC 215.

Understanding race and ethnicity. Models analyzing racial, ethnic, and national identities; boundaries; and collective identities and differentiations. Case studies from cultures worldwide.

Introduction to Physical Anthropology

Fall. 4(3-2)

Problems, data, and methods of physical anthropology. Human genetics, hominid evolution, primate studies, human osteology, and human diversity. Field trips at the student's expense may be required.

Paleolithic Archaeology Spring. 3(3-0) P: ANP 101 or ANP 264 or ANP 203 or ISS 220

Stone Age archaeology from the dawn of tool making to the specialized hunters and cave artists of the late Ice Age.

Rise of Civilization 363

Spring. 3(3-0) P: ANP 101 or ANP 203 or ISS 220 or ANP 202

Archaeological evidence for the appearance and development of the world's earliest prehistoric civilizations. The nature of complex societies and the comparative evolution of states.

Culture, Health, and Illness

Spring. 3(3-0) P: (ANP 101 or ANP 201 or ISS 210 or ISS 215) and completion of Tier I writing requirement.

Cross-cultural perspectives on the definition and treatment of illness.

410 Revolution and Social Change in Latin America

Fall of even years. 3(3-0) P: ANP 101 or ANP 201 or ISS 330C

Comparative examination of sociocultural changes leading to and created by major revolutions in Latin

411 North American Indian Ethnography

Fall. 3(3-0) P: ANP 101 or ANP 201

Social and cultural patterns of North American Indian societies. History, economy, politics, social organization, religion, and social change.

Anthropology of South Asia

Fall of even years. 3(3-0) P: ANP 101 or ANP 201 or ISS 210 or ISS 215

Anthropology of India, Pakistan, Nepal, Bangladesh, and Sri Lanka. Religion, social organization, village life, urban structures, economic organization, historv. and social change.

415 China: Culture and Society

Fall of odd years. 3(3-0) P: ANP 101 or ANP 201 or ISS 330B

Socioeconomic and cultural continuity and change from traditional civilization to the contemporary state and the communist period. Village and urban society and their relationships.

Anthropology of Southern Africa

Fall of odd years. 3(3-0) P: ANP 101 or ANP 201 or ISS 330A

Structure and organization of major cultures. Transformations caused by global, national, and local

418 Contemporary Japan: Mainstream and Margins (I)

Spring of odd years. 3(3-0) P: Completion of Tier I writing requirement. R: Open only to juniors or seniors or graduate students in the College of Social Science or College of Arts and Letters or James Madison College.

Key themes in contemporary Japanese society and culture. Ethnographic representation in anthropology and popular culture.

Language and Culture

Fall, Spring. 3(3-0) Interdepartmental with English. Administered by Anthropology. P: (ISS 210 or ANP 201 or ANP 320 or LIN 200 or LIN 401 or ENG 302) and Completion of Tier I Writing Requirement

Domain, issues, and methods of cultural linguistics. Relationship between language and culture. Language and ethnicity, status, and role. Pidgin and Creole languages. Crosscultural communication.

422 **Religion and Culture**

Spring of odd years. 3(3-0) P: (ANP 101 or ANP 201 or ISS 210) and completion of Tier I writing requirement.

The anthropology of religion and the symbolic analysis of ritual. Theoretical and ethnographic literature.

423 **Psychological Anthropology**

Spring of even years. 3(3-0) P: ANP 101 or ANP 201 or ISS 210 or ISS 215

Cross-cultural perspectives on culture and personality. Enculturation, life-cycle, person and self, emotion and cognition, mental illness.

424 Culture and Economic Behavior

Fall of even years. 3(3-0) P: ANP 101 or ANP 201 or SOC 100 or EC 202 or ISS 225

Relationship of economy to sociocultural phenomena in pre-capitalist and dependent capitalist societies.

426 **Urban Anthropology**

Spring of odd years. 3(3-0) P: ANP 101 or ANP 201 or ISS 320

The anthropological approach to urban issues. Cross-cultural perspectives on the informal economy, power, ideology, and community.

428 **Environments of International Enterprise** Spring of odd years. 3(3-0) P: ANP 101 or ANP 201 or ISS 215

Anthropological commentary on (1) issues stemming from disparate cultures and objectives of transnational organizations and host countries; and (2) cultural and power issues that affect activity in international, inter-organizational business relationships.

429 Ethnographic Field Methods

Spring. 3(3-0) P: (ANP 101 or ANP 201) and completion of Tier I writing requirement. R: Not open to freshmen or sophomores.

Field research in cultural anthropology. Research design, participant observation, relationship of techniques to methods, and ethics.

430 Culture, Resources, and Power

Fall of odd years. 3(3-0) P: ANP 101 or ANP 201 or ISS 225 or ISS 315 SA: ANP 425

Contemporary anthropological perspectives on culture as it relates to power and the use of resources. Anthropological analysis of related contemporary issues.

431 Gender, Environment and Development

Fall of odd years. 3(3-0) P: ANP 101 or ANP 201 RB: Course work in international development and/or gender studies.

Relationship among processes of environmental change, development and gender differentiation. Anthropological perspectives. Case studies of major theoretical approaches. Gendered participation environmental movements, organizations.

432 American Indian Women (D)

Fall of even years. 3(3-0) P: ANP 101 or ANP 201 RB: Background in social sciences.

Role of women in a variety of North American Indian cultures, both traditional and contemporary, using autobiography, life history, historical biography, ethnography, and fiction. Interaction of Indian women and their cultures with Western European and American cultures.

433 Contemporary American Indian Communities (D)

Spring. 3(3-0) P: ÁNP 201 or concurrently American Indian communities today, both reservation and urban, including issues of tribalization, Pan-Indianism, culture change and revitalization, economic development, federal policy, religious freedom, and gender roles.

434 Contemporary Issues in Asian America (D)

Spring of even years. 3(3-0) P: ANP 201 RB: Background in social sciences.

Construction of ethnic and racial categories such as "Asian" and "Asian-American." Study of race, class, gender, transnational identities, and identity politics.

435 Issues in Latino Health: Theory and Method in Minority Health Research

Fall of even years. 3(3-0) P: ANP 101 or ANP 201 or ISS 210 or ISS 215

Anthropological investigation of minority health issues, with an emphasis on Latinos in the United States. Critical analysis of the history and conceptual basis for trends in minority health research.

436 Globalization and Justice: Issues in Political and Legal Anthropology (I)

Spring of odd years. 3(3-0) P: ((ANP 201 or concurrently) or (ISS 330A or concurrently) or (ISS 210 or concurrently) or (ISS 330B or concurrently) or (ISS 215 or concurrently) or (ISS 330C or concurrently) or (ISS 315 or concurrently) or (ISS 335 or concurrently) or completion of Tier I writing requirement

Anthropological perspectives on issues of justice linked to global forces of transnational capitalism, economic development, global governance, and international law

437 Asian Emigrant Communities: A Global Perspective (D)

Spring of odd years. 3(3-0) P: ((ANP 201 or concurrently) or (ISS 330A or concurrently) or (ISS 210 or concurrently) or (ISS 210 or concurrently) or (ISS 215 or concurrently) or (ISS 330C or concurrently) or (ISS 315 or concurrently) or (ISS 335 or concurrently) or completion of Tier I writing requirement

Cross-cultural study of emigrant communities of people of Asian descent around the world. Anthropological study of how ideas of race, ethnicity, and national identity are constructed over time and space.

438 Great Lakes Indians (D)

Spring of even years. 3(3-0) P: (ANP 201 or concurrently) and completion of Tier I writing requirement

Contemporary Native communities of the Great Lakes, both reservation and urban. Sovereignty, treaty rights, taxation, urbanization, cultural change and revitalization, activism, economic development, religious freedom, and relationships with anthropologists

439 Human Rights: Anthropological Perspectives (D)

Spring of even years. 3(3-0) P: ((ANP 201 or concurrently) or (ISS 210 or concurrently) or (ISS 215 or concurrently) or (ISS 315 or concurrently) or (ISS 335 or concurrently)) or completion of Tier I writing requirement

Cross-cultural study of human rights. Anthropological perspective on the role of law, customs, values, and politics in defining, organizing, and understanding individual and collective rights.

440 Hominid Fossils

Spring of odd years. 3(3-0) P: ANP 101 or ANP 202 or ANP 340 or ISS 220

Theories of human evolution during the past five million years fossil evidence.

441 Osteology and Forensic Anthropology

Spring of even years. 4(3-2) P: ANP 202 or ANP 340 or CJ 210 or ISS 220

Human bone and skeletal biology and analysis. Methods of forensic anthropology. Analysis of skeletal remains, forensic pathology, and forensic archaeology.

442 Genes and Diversity

Fall of odd years. 3(3-0) P: ANP 101 or ANP 202 or BS 110 or LBS 144 or ISS 220

Controversies over the contributions of nature and nurture to biological diversity. Issues of gender differences and the race concept.

450 African Archaeology

Fall. 3(3-0) P: HST 360 or ANP 203 or ANP 202 or ISS 220

The archaeological sequence in Africa from the dawn of the Paleolithic to the late Iron Age. Key sites and the interpretation of archaeological evidence.

451 European Archaeology

Spring of even years. 3(3-0) P: ANP 101 or ANP 203 or ANP 202 or ISS 220

Patterns of change in technology, subsistence, economy, settlement, social organization, and political complexity from the earliest human occupation through the Iron Age. Major issues in European archaeology.

452 North American Archaeology

Spring. 3(3-0) P: ANP 101 or ANP 201 or ANP 202 or ANP 203 or ISS 220

Characteristics and processes of North American archaeology on a regional level. Economic, social, political and technological change through time.

453 Mesoamerican Archaeology

Fall of odd years. 3(3-0) P: ANP 101 or ANP 203 or ANP 202 or ISS 220 or ANP 264

Emergence and development of civilizations from first occupation to Spanish Conquest. Use of archaeology, ethnohistory, and history. Major theories of plant domestication and state evolution.

460 Archaeological Practice: Policy and Law

Fall of even years. 3(3-0) P: (ANP 203 or ANP 202 or ISS 220) and Completion of Tier I Writing Requirement

Federal and state legislation and regulations governing archaeology and historic preservation. Major agencies responsible for compliance.

461 Method and Theory in Historical Archaeology

Fall of odd years. 3(3-0) P: ANP 203 Theory and methodology in historical archaeology and its relation to history and anthropology.

462 Frontiers and Colonization in Historical Archaeology

Spring of even years. 3(3-0) P: ANP 203 Cultural dynamics and historical archaeological research in frontier and colonizing situations. European expansion in North America.

463 Laboratory Methods in Archaeology

Spring of odd years. 3(2-2) P: ANP 203 or ANP 464

Preparation and preservation of archaeological data. Conservation, cleaning, cataloguing, and classification. Analysis of lithics, ceramics, faunal and floral remains, metals, and glass.

464 Field Methods in Archaeology

Summer. 2 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: ANP 101 or ANP 202 or ANP 203

Field research. Survey, excavation, mapping, data recording, and field laboratory procedures.

471 The Anthropology of Alternative Medicine (D)

Fall of odd years. 3(3-0) P: (ANP 201) and completion of Tier I writing requirement RB: ANP 270 or (ANP 370 or concurrently)

Anthropological study of alternative medicine and ethnomedicine in the United States and around the world. Cross-cultural study of concepts of health and illness, diagnosis, and treatment.

475 Organizational Anthropology

Fall. 3(3-0) P: Completion of Tier I writing requirement. RB: Acquaintance with issues of culture, power, and communication that occur in geographically dispersed teamwork from any area of endeavor. Ability to report on issues to highlight effective practices and pitfalls. R: Open only to juniors or seniors or graduate students. SA: ANP 901 C: ANP 476 concurrently.

Anthropological study of organizations, focusing on geographically dispersed and culturally disparate organizations.

476 Field Study in Organizational Anthropology (D)

Fall. 1 to 2 credits. P: Completion of Tier I writing requirement. RB: Acquaintance with issues of culture, power, and communication that occur in geographically dispersed teamwork from any area of endeavor. Ability to report on issues to highlight effective practices and pitfalls. R: Open only to juniors or seniors or graduate students. SA: ANP 901 C: ANP 475 concurrently.

Field study of trans-cultural organizations.

480 **History of Anthropological Theory**

Fall of even years. 3(3-0) P: (ANP 201 or ANP 202 or ANP 203) and (ANP 320 or ANP 321 or ANP 322 or ANP 330 or ANP 340 or ANP 361 or ANP 363 or ANP 370)

The 18th, 19th and early 20th century foundations of anthropological theory. Major contemporary theoretical approaches.

485 **Foundations of Museum Studies**

Fall. 3(3-0) Interdepartmental with Arts and Letters and History of Art. Administered by Arts and Letters. R: Not open to freshmen or sophomores. SA: HA 485

Activities, functions, and organization of museums. Changing role of museums as cultural institutions.

488 **Museum Curatorial Practices**

Fall of odd years. 3(3-0) Interdepartmental with Arts and Letters and History of Art. Administered by Arts and Letters. R: Open only to juniors or seniors or graduate students. SA: HA 488

Methods and practices for the development, care, and use of museum collections in research, education, and exhibition activities.

489 **Anthropology Capstone Course (W)**

Fall. 3(3-0) P: (ANP 201 and ANP 202) and completion of Tier I writing requirement. R: Open only to seniors in the Anthropology major.

Integration of the subdivisions of anthropology. Differences between anthropology and other approaches in the social sciences. Future directions of anthropological inquiry.

Independent Study

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Approval of department.

Topics in Anthropology 491

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: ANP 101 or ANP 201 or ANP 203 RB: or one 300level anthropology course.

Selected topics in sociocultural anthropology, archaeology, physical anthropology, anthropological linguistics, or medical anthropology.

492 **Special Topics in Museum Studies**

Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters and History of Art. Administered by Arts and Letters. R: Open only to juniors or seniors or graduate students. SA: HA 492

Special topics supplementing regular course offer-

815 **Transnational Processes and Identities**

Fall of odd years. 3(3-0)

Critique of anthropological theories of transnationalism and globalization, modernity, diaspora, public culture, and ethnic identity.

Language and Cultural Meaning 820

Spring of odd years. 3(3-0)

Intellectual history of 20th century linguistic thinking. Saussure's influence on cultural anthropology. Poststructuralist approaches.

Religion and Ritual

Fall of even years. 3(3-0) R: Open only to

graduate students in Anthropology.

Cross-cultural comparison of religious beliefs, values, and practices in traditional and developing cultures. Religious institutions in cultural systems. Anthropological theories of religion and culture.

International Social Science Research: **Methods and Praxis**

Fall, Spring. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course.

Issues in the design and implementation of anthropological field research. Development of field research proposals.

International Development Theory and **Practice**

Fall. 3(3-0) Interdepartmental with Community, Agriculture, Recreation and Resource Studies and Forestry and Political Science and Social Science. Administered by Community, Agriculture, Recreation and Resource Studies. SA: RD 826

Evolution of international development theory across disciplines. Changing conceptualizations, measurements, processes and effects of development and Ethnicity, social class, gender, and community influences on socioeconomic processes. Current issues, concerns, and strategic alternatives.

Research Methods in Cultural Anthropology

Spring of even years. 3(3-0) RB: One course in Statistics. R: Open only to graduate students in Anthropology.

Methodological underpinnings. Project design, field strategies, research techniques, and methods of data analysis.

Seminar in Cultural Ecology 831

Fall of even years. 3(3-0) R: Open only to graduate students. Approval of department.

Anthropological theories for understanding culture as system of mediation between humans and environment. Cultural ecological approaches applied to sociocultural change and stability.

832 Class and Ethnicity in Social Differentiation

Fall of odd years. 3(3-0) R: Open only to graduate students. Approval of department.

Anthropological theories on nature and sources of social differentiation and inequality within cultures and ethnic communities. Class and ethnic identity in cultural contexts.

833 **Ethnographic Analysis**

Spring of odd years. 3(3-0) R: Approval of department

Methodological and theoretical issues in the analysis of the ethnographic monograph.

834 Medical Anthropology: Overview

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

Anthropological approaches to the study of sickness, disease, and healing. Medical anthropology as

Topics in Medical Anthropology

Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. R: Open to graduate students in the Department of Anthropology or approval of department.

Seminar in the description and analysis of themes in medical anthropology.

836 Culture, Resources, and Power

Spring of odd years. 3(3-0) RB: ANP 855 R: Open to graduate students in the Department of Anthropology.

Theoretical and methodological issues in anthropological analysis of relationships between access to resources and power.

Seminar in Economic Anthropology

Spring of even years. 3(3-0) RB: (ANP 424) or approval of department. R: Open only to graduate students in Anthropology.

Central research topics in the economic anthropology of peasant societies. Dependent capitalist formation and marginal sectors.

Biocultural Evolution 840

Spring. 3(3-0) RB: One course in human evolution. R: Open only to graduate students in the Department of Anthropology.

Major contemporary issues in evolutionary theory, taxonomy, and the evolution of biology and culture.

841 **Physical Anthropology**

Spring of even years. 3(3-0) R: Approval of department.

Controversies in biological anthropology. History of physical anthropology and current theoretical perspectives. Critical approaches to research design.

Human Osteology

Fall of even years. 5(4-2) R: Approval of de-

Human bone biology, skeletal anatomy, and osteological analysis.

844 Topics in Forensic Anthropology

Fall. 2(1-2) A student may earn a maximum of 4 credits in all enrollments for this course. RB: (ANTR 551 and ANP 842) and or previous graduate level work in gross anatomy and human skeletal biology.

Current issues in forensic anthropology. Topics include facial reproduction and identification; laboratory techniques; skeletal histomorphology.

Principles of Archaeological Analysis

Spring of odd years. 3(3-0) RB: (GEO 465) or approval of instructor. R: Open only to graduate students.

Formal, spatial, and temporal dimensions of archaeological research design. Appropriate analytic techniques.

853 **Evolution of Civilization**

Spring of even years. 3(3-0) RB: One 300or 400-level archaeology course. R: Approval of department.

Major anthropological theories of the emergence and development of civilizations. Role of archaeological data in formulating, testing, and refining these theories.

Anthropology—ANP

854 Archaeological Theory

Fall of even years. 3(3-0) RB: One 300- or 400-level archaeology course. R: Approval of department.

Archaeological theory and the nature of the archaeological record. Use of archaeological data to test social theories of past human behavior.

855 The Roots of Contemporary Anthropological Theory

Fall. 3(3-0) R: Open only to graduate students in Anthropology.

Development of contemporary anthropological theory from 18th and 19th centuries. Major paradigms in current anthropology.

858 Gender, Justice and Environmental Change: Issues and Concepts

Fall. 3(3-0) Interdepartmental with Environmental Studies and Applications and Forestry and Fisheries and Wildlife and Geography and Sociology. Administered by Fisheries and Wildlife. RB: Background in social science, environmental science, or natural resources.

Issues and concepts related to gender, ecology, and environmental studies. Key debates and theoretical approaches to addressing environmental issues from a gender and social justice perspective. Gender and environment issues and processes from a global perspective.

859 Gender, Justice, and Environmental Change: Methods and Application

Spring of even years. 3(3-0) Interdepartmental with Forestry and Fisheries and Wildlife and Geography and Resource Development and Sociology. Administered by Anthropology. RB: Background in social science, environmental science, or natural resources.

Methods and case studies related to gender, ecology, and environmental studies. Methodological and fieldwork issues from a feminist perspective in international and intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.

880 Issues in Contemporary Archaeology

Fall of odd years. 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 Anthropology. Approval of department.

Theories, issues, problems, and methodological innovations affecting the conduct of research in archaeology.

890A Individual Readings

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. R: Open only to graduate students. Approval of department.

Advanced study, based on prior preparation, under faculty direction.

890B Individual Research

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. R: Approval of department.

Graduate student projects under faculty direction.

892 Seminar in Anthropology

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate students in Anthropology. Approval of department.

Studies in selected fields.

893 Internship in the Professional Applications of Anthropology

Fall, Spring, Summer. 1 to 3 credits.

Supervised professional experience in federal or state agencies, nonprofit organizations, or corporations related to the professional practice of anthropology.

894 Forensic Anthropology Internship in Forensic Pathology

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course. P: ANP 842 RB: graduate coursework in human anatomy and skeletal biology

Supervised professional internship in postmortem analysis. Students will attend autopsies and learn procedures that are relevant for forensic anthropology. Individual research project.

895 Special Topics in Museum Studies

Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Arts and Letters and History of Art. Administered by Arts and Letters. RB: AL 485

Current issues in museum studies.

899 Master's Thesis Research

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to graduate students in Anthropology. Approval of department.

Master's thesis research.

999 Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Approval of department.

Doctoral dissertation research.