Anthropology (ANTH)

Courses

ANTH A101 Introduction to Anthropology 3 Credits
Introduction to fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology and anthropological linguistics. The course introduces basic ideas, methods and findings of anthropology.
Special Note: Recommended for majors and non-majors.
Attributes: UAA Social Sciences GER.

ANTH A200 Natives of Alaska 3 Credits
Introduction to culture and history of Alaska Natives. Includes environmental settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues, including education, politics, and law.
Attributes: UAA Social Sciences GER.

ANTH A202 Cultural Anthropology 3 Credits
Introduction to the methods, theories, and fundamental concepts in the study of cultural systems. Includes social relationships, economic organization, political systems, symbols and beliefs, and issues related to gender, power, world systems and colonialism, and the social construction of human lives.
Attributes: UAA Social Sciences GER.

ANTH A205 Biological Anthropology 3 Credits
Introduction to human behavior, genetics, classification and evolution with comparisons to other primates. Examines distribution, morphological and physiological adaptations of human populations.
Special Note: Offered fall and spring semesters.

ANTH A210 Introduction to Linguistic Anthropology 3 Credits
Explores languages as communicative interaction and discourse strategies. Discusses multilingualism, sociolinguistics, language change and variation, language endangerment and revitalization, linguistic typologies, folk taxonomies, and kinship in relation to language and culture.

ANTH A211 Fundamentals of Archaeology 3 Credits
Introduction to basic concepts, theories and methods of archaeology with overview of historical development and major findings. Prepares students for archaeological field schools and more specialized courses.

ANTH A250 The Rise of Civilization 3 Credits
Survey of the emergence of civilization in human cultural development. A foundation course covering biological emergence of modern humans, appearance of complex symbolic culture, domestication, urbanization, trade, ritual and ideology, and state formation. A comparative framework is used covering primary areas of civilization--Sumeria, Egypt, China, Indus River, Mesoamerica, South America--and secondary areas, including Southeast Asia, Japan, Africa, and North America.
Attributes: UAA Social Sciences GER.

ANTH A270 Women in Cross-Cultural Perspective 3 Credits
Surveys women in a cross-cultural perspective, exploring the nature of the relationship between gender and sex roles.

ANTH A290 Special Topics in Anthropology 1-3 Credits
Special topics course of general interest in anthropology.
Special Note: May be repeated once for credit with a change in subtitle.

ANTH A312 North American Archaeology 3 Credits
Traces human cultural developments in the New World north of Mexico up to the time of European contact.
Prerequisites: ANTH A211.

ANTH A324 Psychological Anthropology 3 Credits
History, major theories, methods, debates and findings in the intersection of the disciplines of anthropology and psychology regarding the investigation of human psychology in diverse cultural settings. Topics to be covered include: early approaches to the field of culture and personality; exploration of the effects of culture on human emotion, motivation, cognition, notions of the self, culture and mental health/mental disorder, gender, altered states of consciousness, dreams, and culture change.
Prerequisites: ANTH A101 or ANTH A202.

ANTH A325 Cook Inlet Anthropology 3 Credits
Study of the peoples and cultures of the Native, Russian and American periods of the Cook Inlet region. Includes original archaeological studies and ethnohistoric documents.
Special Note: Offered alternate fall semesters.

ANTH A335 Native North Americans 3 Credits
Traditional cultures of Native North Americans, effects of contact with Europeans and contemporary adaptations.
Special Note: Offered as demand warrants.
Registration Restrictions: ANTH A202 recommended

ANTH A336 Peoples and Cultures of South America 3 Credits
Cultural traditions of South American peoples, including origins, prehistory, languages, biological and cultural affiliations, effects of European contact, historical transformations, contemporary adaptations, and current issues.
Prerequisites: ANTH A202 or ANTH A211.

ANTH A360 Anthropology of Art 3 Credits
History, major theories, debates, and findings in the intersection of the disciplines of anthropology and art regarding the investigation of visual representations and aesthetics across cultures, and the impacts of globalization and tourism on indigenous art. Study of the cultural goals, production, care, and duration of pictorial representation from multiple perspectives.
Prerequisites: ANTH A101 or ANTH A202.

ANTH A361 Language and Culture 3 Credits
Study of the relationship between language and culture. Includes language variation, meaning in culture, taxonomies and phonemic principles.
Prerequisites: ANTH A210 or LING A101.

ANTH A365 Modern Human Biological Diversity 3 Credits
Survey of modern human biological variation in an evolutionary perspective. Comparison of the differences (and similarities) within and between modern human populations and the distribution of those differences.
Special Note: STAT A253 strongly recommended.
Prerequisites: ANTH A205.
ANTH A371 Selected Topics in Anthropology 1-3 Credits
Topic varies.
Special Note: May be repeated for credit.

ANTH A400 Anthropology of Religion 3 Credits
Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft and shamanism.
Prerequisites: ANTH A202.

ANTH A410 History of Anthropology 3 Credits
Development of the science of anthropology, stressing the leaders in the field and the theories developed.
Registration Restrictions: 12 credits of Anthropology

ANTH A413 Peopling of the Americas 3 Credits
Critical analysis of the literature concerning the origins of the first Americans, the timing and nature of the earliest migrations across the Bering Land Bridge, and the adaptations developed by early peoples in the Americas from 14,000 to 10,000 years ago. Detailed analysis of relevant archaeological sites as well as linguistic and biological data pertaining to Native American origins.
Special Note: ANTH A434 strongly recommended.
Prerequisites: ANTH A211.

ANTH A415 Applied Anthropology 3 Credits
Explores theory, methods, and history of applied anthropology in the United States with an emphasis on social justice in Alaska.
Special Note: Students will conduct a team-based local research project through engagement with community institutions thereby learning the methods of applying anthropology to solve contemporary sociocultural issues and problems. Not available for credit to students who have completed ANTH A615.
May Be Stacked With: ANTH A615
Prerequisites: ANTH A202 with a minimum grade of C.

ANTH A416 Arctic Archaeology 3 Credits
Origins and development of the prehistoric cultures of northern North America and adjacent northeast Asia.
Prerequisites: ANTH A211.

ANTH A425 Archaeology of Identity 3 Credits
Examination of gender, age, social status, and ethnicity using archaeological data.
Prerequisites: ANTH A211.

ANTH A427 Ethnohistory of Alaska Natives 3 Credits
Examination of major changes in Alaskan Native societies from initial contact to 1940, through the integration of archaeological evidence, oral traditions, historical narratives and governmental documents.
May Be Stacked With: ANTH A627
Prerequisites: ANTH A200.

ANTH A430 Research Methods in Cultural Anthropology 3 Credits
Modes of scientific data gathering, analysis, and interpretation related to sociocultural systems. Includes the logic of scientific inquiry, research design, data recording, data manipulation, field work strategies, ethnographic and report writing, ethics in social science research, and grant proposal preparation.
May Be Stacked With: ANTH A630
Prerequisites: ANTH A202.

ANTH A431 Field Methods in Archaeology 1-8 Credits
Introduction to basic techniques of archaeological survey and excavation, including archaeological data recovery and recording techniques, initial laboratory processing, and preliminary analysis of archaeological materials.
Special Note: May be repeated once for credit.
May Be Stacked With: ANTH A631
Prerequisites: ANTH A211.

ANTH A434 Peoples and Cultures of Northeast Asia 3 Credits
Examines cultural traditions of the indigenous peoples of Northeast Asia (Siberia, the Russian Far East, Mongolia, Manchuria, Korea, Japan), including their origins, prehistory, languages, biological affiliations, historical transformations, contemporary cultures, and current problems.
Special Note: ANTH A211 is recommended.
Prerequisites: ANTH A101 or ANTH A202.

ANTH A436 Aleut Adaptations 3 Credits
Intensive study of traditional and post-contact Aleut (Unangan) culture. Includes origins, prehistory, biological and cultural adaptations. Also considers contemporary Aleut social, economic and political status.
Prerequisites: ANTH A200.

ANTH A437 Eskimo Adaptations 3 Credits
Addresses peoples of the Arctic coastal areas of Alaska and Canada whose traditional languages are of the Inuit-Unangan language family. Students will learn about public debates over the use of the word "Eskimo" and other terms. Focuses on the Inuit and Yup'ik language areas, including the Kalaallit (Greenlanders).
Prerequisites: ANTH A200.

ANTH A438 Tlingit and Haida Adaptations 3 Credits
Comparative analysis of Tlingit and Haida adaptations to the north Pacific Coast including ecological, social, ceremonial, political and cultural characteristics over the period from prehistoric emergence to contemporary conditions in Alaska and British Columbia.
Prerequisites: ANTH A200.

ANTH A439 Athabascan Adaptations 3 Credits
Traditional and contemporary northern Athabascan cultures and their history in Alaska and Canada, with relevant information pertaining to Athabascans of the Pacific Northwest. Emphasis on environmental adaptations, commonalities and variations in cultural patterning, the impact of interactions with neighboring peoples and Europeans, and culture changes over time.
Prerequisites: ANTH A200.

ANTH A445 Evolution of Humans and Disease 3 Credits
Special Note: STAT A252 or STAT A253 strongly recommended.
May Be Stacked With: ANTH A645
Prerequisites: ANTH A205.
ANTH A454 Culture and Ecology 3 Credits
Examines anthropological approaches to the relationships between cultural and ecological systems. Explores culture as an adaptive system and the role of various cultural subsystems in different adaptations. Applies ecological concepts to human societies; impact of environmental change on human societies, and impacts of human societies on environments; ethnoecology and traditional ecological knowledge of indigenous communities; values of nature among Western and non-Western societies; and political ecology in relation to the juxtaposition of indigenous peoples within contemporary nation-states.
Special Note: Not available for credit to students who have completed ANTH A654.
May Be Stacked With: ANTH A654
Prerequisites: ANTH A202 with a minimum grade of C.
Attributes: UAA Integrative Capstone GER.

ANTH A455 Medical Anthropology 3 Credits
Study of the relationship of human culture to health and disease. Includes ancient disease and impact on human evolution, interrelationship between biology and culture, alternative health systems, and applicability to contemporary problems.
Special Note: Offered alternate fall semesters.
May Be Stacked With: ANTH A655
Prerequisites: ANTH A202 or ANTH A205.

ANTH A457 Food and Nutrition: An Anthropological Perspective 3 Credits
Relationship of human culture to food and nutrition. Includes the history of human diet and its relationship to biological and cultural evolution, contemporary human nutrition in cross-cultural perspective, dietary adequacy and nutritional pathology, food-getting and food-preparation technology, and relationship between food and population, gender, ideology and socioeconomic status.
May Be Stacked With: ANTH A657
Prerequisites: ANTH A202 or ANTH A205.

ANTH A460 Peace, War, and Violence: An Anthropological Perspective 3 Credits
A critical evaluation of the archeological and ethnographic record concerning violence, warfare, and peace-making both within and between human societies. Biological, ecological, cultural, and psychological theories of violence and warfare are considered, and the consequences of violence and warfare for human societies are assessed. Various social, political, symbolic, and ritual contexts for both peace-making and legitimization of individual and group violence are considered. Levels and types of violence in band, tribal, chiefdom, and state-level societies are considered, including ethnocide, genocide, and terrorism in contemporary global conflicts.
Special Note: ANTH A211 recommended.
Prerequisites: ANTH A202.

ANTH A461 Decolonizing Methodologies 3 Credits
Introduces research methods informed by Indigenous ways of producing and sharing knowledge, ethical considerations, collaborative research design with Indigenous communities and peoples, the sharing of research materials and outcomes, and multivocal authorship. Examines the process of integrating responsibilities as a researcher with respect for cultural property rights and ownership.
Crosslisted With: AKNS A461.
Prerequisites: AKNS A201 with a minimum grade of C or ANTH A200 with a minimum grade of C or ANTH A335 with a minimum grade of C.

ANTH A464 Culture and Globalization 3 Credits
Explores the relationship between culture and globalization. Examines global capitalism and ethnographic experiences in the workplace; in the context of transnational migration and diasporas; and through the influence of new information technologies and media on values, beliefs, and practices.
Special Note: Not available for credit to students who have completed STAT A664.
Registration Restrictions: Completion of all GER Tier 1 (basic college-level skills) courses and junior or senior standing
May Be Stacked With: ANTH A664
Prerequisites: ANTH A101 with a minimum grade of C or ANTH A202 with a minimum grade of C or ANTH A250 with a minimum grade of C.
Attributes: UAA Integrative Capstone GER.

ANTH A470 Landscape Archaeology 3 Credits
Archaeological approaches to the concepts, theories and methods of landscape archaeology, a field that engages with the diverse meanings of landscape from specific land tracts and expansive vistas to different ways of seeing the world. Course tracks historical developments and reviews core archaeological contributions to the study of space and place.
Prerequisites: ANTH A211.

ANTH A475 Archaeological Surveying and Illustration 4 Credits
Practical instruction in archaeological mapping and in publication-quality illustration of archaeological data using hand-drawn and computer-aided techniques.
Registration Restrictions: Instructor permission.
Prerequisites: ANTH A211.

ANTH A476 Ethical Issues in Archaeology 3 Credits
Examination of the ethical issues that confront archaeologists, and the responsibilities they have to the public, the discipline, their colleagues, and member of the cultures with whom they are working.
May Be Stacked With: ANTH A676
Prerequisites: ANTH A211.

ANTH A480 Analytical Techniques in Archaeology 3 Credits
Methods and techniques of description, classification and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.
May Be Stacked With: ANTH A680
Prerequisites: ANTH A211.
ANTH A481 Museum Studies in Anthropology 3 Credits
History and practice of anthropology in museums. Anthropological and metaphysical dimensions of museums and material culture; the history of ethnographic collecting and research (particularly in North America); critical theory and practice of exhibitions and cultural representation; repatriation and indigenous museums in historical context.
Registration Restrictions: Six credits of Anthropology and/or museum studies.
May Be Stacked With: ANTH A681
Prerequisites: ANTH A202 or ANTH A205 or ANTH A211.

ANTH A482 Historical Archaeology 3 Credits
An examination of the field of historical archaeology, the place of historical archaeology within the larger discipline of anthropological archaeology, the history of research on historical sites, the nature of historical data, the uses of non-documentary historical data, and ethnoarchaeology.
Special Note: Offered as demand warrants.
Prerequisites: ANTH A211.

ANTH A490 Selected Topics in Anthropology 1-3 Credits
Topics in anthropology presented by members of the professional community.
Special Note: May be repeated for credit with change of subtitle.
Registration Restrictions: 12 credits in Anthropology

ANTH A495 Practicum in Anthropology 1-3 Credits
Application of practical anthropological skills learned under the supervision of a professional anthropologist.
Special Note: May be repeated once for credit.
Registration Restrictions: 15 credit hours in Anthropology, permission of instructor of record, approval of agency mentor.

ANTH A499 Senior Thesis in Anthropology 3 Credits
Independent library, laboratory, or field research in anthropology resulting in a substantial, thesis-quality paper.
Special Note: May be repeated once for credit as a part of a two-semester sequence, with permission of thesis advisor.
Registration Restrictions: Senior standing in the undergraduate anthropology major and acceptance into honors in anthropology by faculty permission.

ANTH A602 Proseminar in Cultural Anthropology 3 Credits
Advanced examination of the major theories, concepts and findings in contemporary cultural anthropology covering topics such as materialism, social structure, power, symbols, practice, cognition and postmodern views as well as postcolonial and indigenous critiques and ethical concerns.
Registration Restrictions: Admission to the UAA Anthropology MA program.

ANTH A605 Proseminar in Biological Anthropology 3 Credits
Methods and techniques of and theoretical approaches to topics in biological anthropology. Includes the study of evolution, human genetics, primate biology and behavior, human evolution, and statistical interpretation of biological data.
Registration Restrictions: Graduate standing; admission to the UAA Anthropology MA program.
Prerequisites: ANTH A205.

ANTH A611 Proseminar in Archaeology 3 Credits
Survey of theoretical approaches and practice in contemporary archaeology, including archaeological data analysis and interpretation. Includes case studies, class discussions based on readings and student presentations.
Registration Restrictions: Admission to the UAA Anthropology MA program.

ANTH A615 Advanced Applied Anthropology 3 Credits
Evaluate and integrate theory, methods and history of applied anthropology in the United States with an emphasis on social justice in Alaska.
Special Note: Students will conduct a team research project with local community institutions thereby developing leadership, management skills and commitments to civic engagement. Not available for credit to students who have completed ANTH A415.
Registration Restrictions: Graduate standing and undergraduate cultural anthropology course with a minimum grade of C.
May Be Stacked With: ANTH A415

ANTH A620 Research Design 3 Credits
Method and theory of research design as applied to thesis research. Class covers developing a research question, conducting a literature review, and writing a thesis prospectus.
Registration Restrictions: Graduate standing; admission to the UAA Anthropology MA program
Prerequisites: ANTH A602 and ANTH A605 and ANTH A611.

ANTH A627 Ethnohistory of Alaska Natives 3 Credits
Examines major changes in Alaskan Native societies from initial contact through 1940, through the integration of archaeological evidence, oral traditions, historical narratives and governmental documents.
Special Note: In addition to meeting all requirements for ANTH A427, graduate students will be required to prepare a research paper from primary sources (oral, written or both) and give a presentation to the class. Not available to students who have taken ANTH A427.
Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A427

ANTH A630 Advanced Research Methods in Cultural Anthropology 3 Credits
Modes of scientific data gathering, analysis, and interpretation related to sociocultural systems. Includes the logic of scientific inquiry, research design, data recording, computer assisted qualitative data analysis, field work strategies, ethnographic and report writing, ethics in social science research and grant proposal preparation.
Special Note: Lectures concurrent with ANTH A430. In addition to meeting all requirements for ANTH A430, graduate students will be required to complete a research grant proposal and engage in computer-assisted qualitative data analysis. Offered as demand warrants.
Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A430
ANTH A631 Field Methods in Archaeology 1-8 Credits
Advanced techniques of archaeological survey and excavation, including archaeological data recovery and recording techniques, initial laboratory processing, and preliminary analysis of archaeological materials.

Special Note: May be repeated once for credit. Graduate students will supervise the work of less experienced undergraduates under the overall supervision of the project director. They will be responsible for the quality of the excavation and recording of their undergraduate crew. They will be critically evaluated as potential professionals.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A431

Prerequisites: ANTH A211.

ANTH A645 Advanced Evolution of Humans and Disease 3 Credits
Methods, techniques and theoretical approaches to the evolution of human response to disease and evolution of disease response to humans. Interrelationships of human behavior, biology and disease.

Special Note: In addition to meeting all requirements for ANTH A445, graduate students will be required to pursue a major research project, to deliver a presentation of their research findings to the class, and to report their results in written form. Not available to students who have taken ANTH A445.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A445

ANTH A654 Advanced Studies in Culture and Ecology 3 Credits
Applies ecological concepts to human societies; examines impacts of environmental change on human societies and of human societies on environments; explores ethnecology and traditional ecological knowledge of indigenous communities and the values of nature among Western and non-Western societies; and highlights political ecology in the context of the modern world-system and globalization.

Special Note: Not available for credit to students who have completed ANTH A454.

Registration Restrictions: Graduate standing and a completed undergraduate course in cultural anthropology with a minimum grade of C.
May Be Stacked With: ANTH A454

ANTH A655 Advanced Medical Anthropology 3 Credits
Study of the relationship of human culture to health and disease. Includes ancient disease and impact on human evolution, interrelationship between biology and culture, alternative health systems, and applicability to contemporary problems.

Special Note: In addition to meeting all requirements for ANTH A455, graduate students will be required to research the literature on a current topic in medical anthropology or to conduct independent research in medical anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A455. Offered alternate fall semesters.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A455

ANTH A657 Nutritional Anthropology 3 Credits
Relationship of human culture to food and nutrition. Includes the history of human diet and its relationship to biological and cultural evolution, contemporary human nutrition in cross-cultural perspective, dietary adequacy and nutritional pathology, food-getting and food-preparation technology, and relationship between food and population, gender, ideology and socioeconomic status.

Special Note: In addition to meeting all requirements for ANTH A457, graduate students will be required to research the literature on a current topic in nutritional anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available to students who have completed ANTH A457.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A457

ANTH A664 Adv Culture and Globalization 3 Credits
Advanced exploration of the relationship between culture and globalization. Examines global capitalism and ethnographic experiences in the workplace; in the context of transnational migration and diasporas; and the influence of new information technologies and media on values, beliefs, and practices.

Special Note: Not available for credit to students who have completed ANTH A464.

Registration Restrictions: Acceptance into the Anthropology MA Program.
May Be Stacked With: ANTH A464

ANTH A675 Cultural Resource Management 3 Credits
An integrated anthropological perspective on historic preservation and the management of cultural resources in the United States. Includes the history of resource protection legislation, the design and implementation of cultural resource management projects, and applications of relevant cultural resource laws, including ethical issues.

Registration Restrictions: Graduate standing.

ANTH A676 Ethical Issues in Archaeology 3 Credits
Examination of the ethical issues that confront archaeologists and the responsibilities they have to the public, the discipline, their colleagues, and members of the cultures with whom they are working. Students will encounter ethical dilemmas likely to appear on the job.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A476

ANTH A680 Advanced Analytical Techniques in Archaeology 3 Credits
Advanced methods and techniques of description, classification and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.

Special Note: In addition to meeting all requirements for ANTH A480, graduate students will be required to pursue a major research project, to deliver a presentation of their research findings to the class, and to report their results in written form.

Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A480
ANTH A681 Advanced Museum Studies in Anthropology 3 Credits
History and practice of anthropology in museums. Anthropological and
metaphysical dimensions of museums and material culture; the history
of ethnographic collecting and research (particularly in North America);
critical theory and practice of exhibitions and cultural representation;
repatriation and indigenous museums in historical context.
Special Note: In addition to doing the work assigned to undergraduates,
graduate students will be expected to undertake an extensive collection
research or exhibition preparation project which will constitute a
significant portion of their grade.
Registration Restrictions: Graduate standing
May Be Stacked With: ANTH A481

ANTH A690 Special Topics in Anthropology 1-3 Credits
Special topics in anthropology at the graduate level.
Special Note: May be repeated for a maximum of 6 credits with a
change of subtitle.
Registration Restrictions: Graduate standing

ANTH A695 Anthropology Practicum 3 Credits
Anthropology practicum in the public or private sector. Emphasis on
the application of anthropological skills under the supervision of a
professional anthropologist.
Special Note: The ANTH A615 prerequisite is designated for the
Applied Cultural track in the Anthropology MA program, while the
ANTH A675 prerequisite is designated for the Applied Archaeology
(Cultural Resource Management) track in the Anthropology MA
program.
Registration Restrictions: Admission to the UAA Anthropology MA
program.
Prerequisites: ANTH A615 or concurrent enrollment or ANTH A675
or concurrent enrollment.

ANTH A698 Individual Research 1-9 Credits
Supervised field, laboratory, and/or library research that precedes thesis
writing.
Special Note: Only 3 credits can be used to fulfill minimum 30-credit
requirement for graduation. Course cannot be taken until other required
non-thesis coursework is completed. May be repeated for a maximum
of 18 credits.
Registration Restrictions: Graduate standing; admission to the UAA
Anthropology MA program and completion of non-thesis course
requirements.
Prerequisites: ANTH A602 and ANTH A605 and ANTH A611.

ANTH A699 Thesis Research 1-6 Credits
Independent research conducted under the supervision of a student's
graduate committee.
Special Note: Students may enroll for variable credit, but a total of 6
credits are required for graduation. Offered fall and spring semesters.
May be repeated for a maximum of 6 credits.
Registration Restrictions: Admission to the UAA Anthropology MA
program; advancement to candidacy and permission of thesis chair
required.