2540 Psychology of the Individual (3) Study of individual behavior, and the progressive changes in behavior that occur in natural environments; introduction to personality, developmental and abnormal psychology. Psychology 2500 recommended. E.

3120 Social Psychology (3) General survey of theories, methods, and research findings on individual behavior in a social context. Prereq: 2500. E.

3129 Social Psychology Laboratory (2) Prereq: 3120; recommended prereq: 3319.

3140 Environmental Psychology (3) Influence of physical surroundings on individual experience, interpersonal relations, and social systems. Includes such topics as noise, temperature, crowding, air pollution, urban settings. Prereq: 2500 or equivalent recommended.

3150 Psychological Statistics (4) Introduction to basic statistical methods used in behavioral sciences. Not open to students with credit in Statistics 2100, Mathematics 3300, Sociology 3920, or equivalent. Prereq: 2 years of high school algebra or one course in college algebra. E.

3210 Learning and Thinking (3) Study of the theoretical and empirical basis of learning and thinking. Prereq: 2500. E.

3219 Laboratory in Learning and Thinking (2) Prereq: 3210; recommended prereq: 3319.

3220 Motivation and Emotion (3) Current theories, approaches, and their development. Prereq: 2500. E.

3240 Psychology of Music (3) Introduction to psychological study of musical sounds and instruments; theories of rhythm, melody, and their relation to the psychology of spoken language. Prereq: 2520.

3319 Introduction to Research in Psychology (3) Basic techniques of research in behavioral science, including experimentation and naturalistic observation.

3550 Child Psychology (3) Origin and principles of behavior in infancy and childhood; physical, intellectual, social, emotional, and language behavior of the normal child. Prereq: 2500 or equivalent; 2540 recommended. (Same as Educ. Psych. 3550.) E.

3559 Laboratory in Child Psychology (2) Field and laboratory studies of child development. Prereq: 3550 and recommended prereq: 3319.

3570 Psychological Problems in Childhood (3) Considers functional and developmental psychopathologies occurring in infancy and childhood, e.g., infantile autism, fears and phobias, and learning problems. Major contemporary theories and empirical research are emphasized. Prereq: 3550.

3816-38 Human Relations (3,3) The study of interpersonal relations and communication through structured small group experiences.

3850 Abnormal Psychology (3) Constitutional and environmental causes of abnormal behavior; neurotic and psychotic reactions; non-technical discussion of diagnostic and therapeutic methods. Prereq: 2500; 2540 recommended. E.

3720 Ethology and Sociobiology (3) Basic concepts of the evolutionary approach to behavior with special reference to controversial issues in applications to psychology, the social sciences, and the arts.

4101 Foreign Study (1-16) See page 160.

4102 Off-Campus Study (1-16) See page 160. Psychology 4103, 4107, 4109, and 4110 are courses of independent study and research taken by consent of instructor only. Course requirements, meeting times, and grading procedures are established by agreement between the student and a member of the psychlogy faculty. For each credit hour, a student may expect to spend from two to three hours per week for the quarter. No more than 24 credit hours may be earned in courses 4103, 4107, 4109, 4110 combined.

4103 Independent Study (1-12) May be repeated. Maximum 12 credit hours. See note above. Prereq: Consent of instructor.

4107 Experience in Individual Instruction (1-4) Experience as a proctor in individualized instruction. Prereq: Consent of instructor. May be repeated. Maximum 6 hours.

4109 Undergraduate Research (1-12) May be repeated. Maximum 12 credit hours. See note above. Prereq: Consent of instructor.

4110 Undergraduate Participation in Community Research (1-12) May be repeated. Maximum 12 credit hours. See note above. Prereq: Consent of instructor.

4115 Psychology of Sex Role Development (3) (Same as Educational and Counseling Psychology 4110).

4120 Topics in Social Psychology (3) Intensive analysis of selected research topics. Prereq: 3120 or Sociology 3130. (Same as Sociology 4120.)

4200 Topics in Health Psychology (4) May be repeated. Maximum 8 hours.

4220 Sensory Processes and Perception (3) Survey of sensory and perceptual processes with emphasis on audition and vision. Prereq: 3150; 2520 recommended.

4229 Laboratory in Sensory Processes and Perception (2) Prereq or coreq: 4220.

4480 Organizational-Industrial Psychology (3) Cannot be taken for credit by students who have credit for Management 3460. (Same as Management 4460.)

4510 Personality Theories (3) Survey of major approaches to understanding human personality and its development. Prereq: 2540; 3550 or 3650.

4610 Group Processes (3) Study and experience of theory and techniques of group processing and facilitation. Those participating in 4610 are expected to continue into 4620 and 4630. Prereq: 3615-26 and consent of instructor.

4620-30 Seminar in Group Processes (3,3) Didactic and laboratory experience for those qualified for further training as group facilitators. Prereq: 4610 and consent of instructor.

4640 Psychological Tests and Measures (3) Theory and construction of individual and group measures; survey of various methods of assessment of intelligence, personality, special abilities, and educational achievement. Prereq: 3150.

4650 Symbolic Processes (3) Logic of signs and symbolic, directed and associative thinking; memory, problem solving, and concept formation; nature, use, and development of language. Prereq: 3210 or consent of instructor.

4680 The Psychology of Language (3) Theories of the nature and development of language and human communication. Prereq: 3210.

4670 Cognitive Development (3) Theory and research on development of language and thinking in children and adolescents. Prereq: 3210 or 3550.

4710 Physiological Psychology (4) Nervous system and physiological correlates of behavior. Prereq: One year of biology or zoology and Psychology 2520.

4719 Physiological Psychology Laboratory (4) Laboratory studies of nervous system and physiological correlates of behavior. Coreq: 4710.

4720 Comparative Animal Behavior (4) Methods and principles. (Same as Zoology 4720.)

4729 Comparative Animal Behavior Laboratory (4) Laboratory and field studies. Coreq: 4720. (Same as Zoology 4720.)

4770 Psychology and the Law (4) Psychological aspects of the legal system. Prereq: Junior Standing.

4780 Psychology and Current Issues (3) Research and theory relevant to selected contemporary issues.

4 class hours per week. Prereq: Consent of instructor. May be repeated. Maximum 6 credit hours.

4830 History and Systems of Psychology (3) Evolution of the field of psychology, focusing on classic schools of thought and recent developments. Prereq: 9 hours of upper-division psychology.


4860 Programmed Learning (3) (Same as Educ. C & 14860.)

4870 Contemporary Research in Behavior of Women (3) Study of interaction of cultural and biological factors in determining the behavior of women, with emphasis on psychological methods involved. (Same as Women's Studies 4870.)

4890 Afro-American Psychology (3) Review and analysis of psychological literature on Afro-Americans. Prereq: Consent of instructor. (Same as Black Studies 4890.)

4910 Senior Seminar on Great Ideas in Psychology (3) Review of key ideas in psychology that have shaped our conceptions of humankind in basic ways. Contemporary definition of each idea will be explored against the background of the idea's historical development, with an attempt to understand the vicissitudes of each conception as a product of larger social and scientific pressures. Recommended for Seniors.

GRADUATE General requirements for the master's degree and doctoral degree as well as core descriptions are given in the Graduate Catalog.

Religious Studies (863)

Professors: G. H. Reynolds (Head), Ph.D. Harvard; F. S. Lusby, B.D. Colgate (Rochester); D. L. Dungan, Th.D. Harvard; W. J. Humphreys, Th.D. Union; E. W. Liege, Ph.D. Vanderbilt; R. V. Norman, Jr. (Vice Provost), Ph.D. Yale. Associate Professors: J. L. Fitzgerald, Ph.D. Chicago; M. L. Levering, Ph.D. Harvard.

Assistant Professors: M. W. Harris, Ph.D. Harvard. Adjunct, J. D. Hodges, Ph.D. Chicago; T. Paton, M.A. Yale; L. M. Tober, Ph.D. Vanderbilt.

UNDERGRADUATE B.A. Major: Two options are available in religious studies. Designed to assure that students study at least two different religious traditions, and to attain skills to analyze and interpret theoretical issues in the study of religion, the basic option consists of at least 36 hours of religious studies courses at the 3000 level or above, including the following: (1) 3650; (2) one of the following: 3650, 3671, 3672, 3770; (3) 3370 and 3380; (4) two of the following, 3011, 3021, 3600, 3690, 3740, 3745, 3750; and (5) one 4000 level seminar selected in consultation with the student's advisor. The remaining eight hours which complete the major requirement shall not include courses from related language studies.

As an alternative to the basic option, a student-initiated option is recommended for students who plan to pursue graduate study in religion or who have other special educational needs. A faculty member in religious studies will help a student formulate an individual program consisting of at least 36 hours of study at the 3000 level or above. Students whose educational goals would best be served by such a program are
one year's work in another college should have had two or more year's work in (Emeritus), Ph.D. Princeton; F. D. Maurino (Emeritus), Ph.D. Illinois; A. S. Alien, Ph.D. California (Berkeley); D. M. Rogers, Ed.D. Georgia; B. S. West, Ph.D. North Carolina; J. J. Wood, Ph.D. Southern California.

Professors:

W. F. Byess (Emeritus), Ph.D. Wisconsin; E. J. Campion, Ph.D. Yale; R. M. E. De Rycke, Ph.D. Illinois; H. Handelman, Ph.D. Florida; K. D. Levy, Ph.D. Kentucky; C. R. M. Pinsky, Ph.D. California (Berkeley).

Associate Professors:

A. S. Allen, Ph.D. California (Berkeley); D. M. DiPuccio, Ph.D. Kansas; C. K. Duncan, Ph.D. Illinois; F. Perez-Pineta, Ph.D. Penn State; C. V. Rogers, Ed.D. Georgia; B. S. West, Ph.D. North Carolina; J. J. Wood, Ph.D. Southern California.

Instructors:

C. G. Cox, M.A. Tennessee; M. T. Rabot, Cert. de Lice Polite; P. A. Wilson, M.A. Tufts.

Placement Examination: Students who have had two or more year's work in French, Italian, or Spanish in high school or one year's work in another college should register in French or Spanish 2110 or in French, Italian, or Spanish 2510. During the first week of the quarter a placement test will be given. Students will be advised if a change in registration is indicated.

Proficiency Examinations: Students who have acquired a knowledge of French, Italian, or Spanish through private study, tutoring, residence in foreign countries, or the like should initiate a request for a proficiency test in the Office of the Dean of Admissions and Records. A student earning a grade of C or better on such a test will receive credit for a limited number of courses. Students are encouraged to proceed as rapidly as their achievement permits.

Note to Majors and Minors in French, Italian, or Spanish: Students who have completed nine hours of upper-division courses in French, Italian, or Spanish literature at The University of Tennessee, or equivalent work at other institutions, must either (1) have a minimum grade point average of 2.0 in French, Italian, or Spanish before being accepted for a major's program, or (2) qualify by demonstrating, during the first week of the quarter, not less than a minimum ability equivalent to a grade of C or better on the current examination in French or Spanish 2130 or French, Italian, or Spanish 2520.

All majors must take upper-division courses under more than one instructor and must have an adequate pronunciation and an adequate reading knowledge of the language.

Latin American Studies. See Cultural Studies.

Certification for Teaching French or Spanish in Tennessee

Consult Certification Clerk, Room 212 Claxton Education Building.

French (405)

B.A. Major: Consists of 36 hours in courses numbered 3110 or above. Students whose primary interest is literature must have the following courses (or their equivalent, with consent of the department): 3110-20-30 or 3810-20-30 (Aspects of Survey of Literature, 9 hours); 3410 or 3420 or 3430 or 3450 (Intermediate Composition and Conversation or Composition and Conversation for Careers in Business, 3 hours); 4210 (Phonetics, 3 hours); 4220 or 4230 (Advanced Grammar, 3 hours); 9 hours of literature at the 4000 level; 9 additional hours selected from courses in literature, language, or civilization. Students whose primary interest is language must have the following courses (or their equivalent, with consent of the department): 3110-20-30 or 3810-20-30 (Aspects of Survey of Literature, 9 hours); 3410 or 3420 or 3430 or 3450 (Intermediate Composition and Conversation or Composition and Conversation for Careers in Business, 3 hours); 4210 (Phonetics, 3 hours); 4220 or 4230 (Advanced Grammar, 3 hours); 6 hours selected from courses 3410-20-30 or 3450 (Intermediate Composition and Conversation or Composition and Conversation for Careers in Business, 3 hours); 4210 (Phonetics, 3 hours); 4220 or 4230 (Advanced Grammar, 3 hours); 9 hours of literature at the 4000 level; 6 additional hours selected from courses in literature, language, or civilization. With either of the above options, students may substitute Foreign Study (4101) for certain courses; students with special interests, such as Comparative Literature, may make certain substitutions with consent of department.

Minor: Consists of 24 hours in courses numbered 3110 or above, including the following: 3110-20-30 or 3810-20-30 (Aspects of Survey of Literature, 9 hours); 3410 (Intermediate Composition and Conversation, 3 hours); 4210 (Phonetics, 3 hours); 9 additional hours selected from courses in literature, language, or civilization.

Courses which are the equivalents of the foregoing may be substituted with consent of the department; but courses in French literature in English translation may not be counted toward either a major or a minor.

1110-20-30 Elementary French (3,3,3) This sequence strongly recommended for students intending to take upper-division courses in French. Must be taken in sequence. 3 hours and 2 labs.

1118-28-38 Honors: Elementary French (3,3,3) Honors course for students of superior ability. 1118 not for students with a maximum Atom F5 for individual placement. Students admitted to 1118 and 1138 on basis of diagnostic test or conference with instructor, high school average of at least 90.

Class held to maximum of 15 for individual attention. Class covers normal elementary French program; credit for first year. Students expected to spend normal amount of preparation time. Students finding course too difficult may elect to transfer to regular course. Majors and minors in French are urged to take this course. Students passing 1110 with grade of B or higher are eligible to take 1118. Students passing 1120 with grade of B or higher are eligible for 1138 rather than 1130.

1510-20 Elementary French (4,4,4) Must be taken in sequence. 4 class meetings and 2 laboratory periods.

2110-20-30 Intermediate French (2,3,3) This sequence strongly recommended for students intending to take upper-division courses in French. Must be taken in sequence. 3 hours and 2 labs.

2118-28-38 Honors: Intermediate French (2,3,3) Honors course for students of superior ability in French. Incoming freshmen admitted on basis of diagnostic test, high school average, and performance on ACT. Class held to maximum of 15 for individual attention. Students follow enriched program which emphasizes speaking ability and reading, including literary selections. Students passing 2110 with a grade of B or higher are eligible for 2120 rather than 2122. Students taking 2120 with a grade of B or higher are eligible for 2130 rather than 2132. Students earning a grade of A in 2120 are eligible for 2138 as they may substitute reading for a proficiency exam in French 3000; credit for French 3000 given to students receiving a grade of A or B in 2138 or 2130 (beneath 2138) in place of 1130.

2130-20-30 Intermediate French (4,4,4) Must be taken in sequence. 4 class meetings and 2 laboratory periods.

2510-20 Intermediate French (4,4,4) Must be taken in sequence. 4 class meetings and 2 laboratory periods.

2610- Panorama of French Culture (4,4,4) Cultural forces which produced the French nation; art, literature, architecture, music under French influence; emergence of classicism; and the culture. 2620 — Arts in Age of Reason and trends in French culture during the Revolution and Age of Romanticism; bourgeois art of 19th century, and in modern movements of surrealism, dadaism, and existentialism.

2910-20-30 French Literature in English Translation (3,3,3) From Provençal through Rabelais, 19th century. 2920 — The Classics and the Age of Reason: The great dramatists, La Princesse de Clèves, Racine, Molière, Voltaire. 2930 — The 19th and 20th centuries: Balzac, Flaubert, Proust, Camus; Change and development after World War II. Option of 4 hours credit must present appropriate amount of extra work above that required for 3 hours.
and Graduate Students (3,3,3) Elements of language, elementary and advanced readings. Open to gradu- ate students preparing for language examinations, and upper-division students desiring reading knowl edge of the language. Undergraduate credit only. Not for credit for those having had 1110-20-30, 1510-20, or equivalent. No auditors.

3110-20-30 Aspects of French Literature (3,3,3) Study (not usually chronological) of various periods of the literature, emphasis upon the genres (poetry, novel, drama) varies. Prereq: 2130, 2520, or equivalent. Rec- ommended for literature majors.

3240 Women in French Culture (4) Role of women in shaping French history and culture. Feminists (George Sand), royal mistresses (Mme. de Maintenon), intel- lectuals (Mme. de Staël); actresses (Sarah Bernhardt); scientists (Marie Curie).Same as Women’s Studies 3240.

3250 Masterpieces of French Fiction in English Translation (4) Among works studied are Romance of Tristan and Isolde, Eugenie Grandet, Swann’s Way, The Wanderer, and short stories of Maupassant and Marianne.

3410-20-30 Intermediate Composition and Conversation (3,3,3) Grammatical analysis of modern French prose; review of grammatical principles and their appli- cation in translation from English to French, both written and oral; exercises in free composition. Prereq: 2130 or 2520.

3450 Composition and Conversation for Careers in Business (3) Analysis of contemporary French lan- guage as it applies to business transactions. Understanding and composing business letters; oral communication and elements of French Culture relat- ed to good business practices. Only one of the courses, 3450 or 4510, may be applied toward the major. Prereq: 3410-3420 or permission of instructor.

3810-20-30 Survey of French Literature (3,3,3) Chronological study of various genres (poetry, novel, drama) by periods, from medieval period to the present. May be taken in place of 3110-20-30. Prereq: 2130, 2520, or equivalent.

4001-02-03 Introduction to Consecutive and Simultaneous French Translation (3,3,3) 4001—Oral Translation into English. 4002—Consecutive Inter- translation to and from English; 4003—Simultaneous Translation to and from English. Training of students with intermediate or advanced knowledge of French for consecutive and simultaneous oral translation from French into English, and vice versa, on a variety of professional subjects, such as International Econom- ics, and science. The course will be given mainly in the language lab with additional classroom supervi- sion by the instructor. Prereq: 3430 or equivalent. Must be taken in sequence.

4010 Masterpieces of French Literature in English Translation (3) No foreign language credit.

4020 Masterpieces of French Drama in English Translation (3) No foreign language credit.

4101 Foreign Study (1-16) See page 160.

4110-20-30 French Literature of the Seventeenth Century (3,3,3) Prereq: 2130, 2520, or equivalent.

4150 Theatrical French (1-3) Performance in one or more French plays. May be repeated for credit with intermediate or advanced knowledge of French and with permission of instructor. Prereq: 2130, 2520, or equivalent.

4160-70-80 Advanced Conversation (2,2,2) Intensive training in prepared and spontaneous conversations. Subjects range from travel and current events to lit- erature and aspects of national culture. Prereq: Not Completion of 9 hours of courses on 3000 level.

4210 Phonetics (3) Prereq: 2130, 2520, or equivalent.

4220-30 Advanced Grammar (3,3) Prereq: 2130, 2520, or equivalent.

4250 Introduction to Descriptive Linguistics (3) Pho- netics and phonemics, morphology and syntax. Types of dialects, contrast between inner and outer dialects, and dialectal geography. Application of descriptive linguistics—field linguistics, dialect study; its practical use in learn- ing languages and in language teaching. Introduction to transformational grammar. Prereq: 9 hours of upper- division English or 9 hours of upper-division courses in a modern or ancient language (exclusive of German and French 3610-2030), courses in literature in trans- lation, and general courses in Latin and Greek requiring no knowledge of these languages), or consent of depart- ment. (Same as German, Russian, Spanish, and Linguistics 4250.)

4260 Introduction to Historical and Comparative Lin- guistics (3) (Same as German, Russian, Spanish, and Linguistics 4260.)

4270 Romance Linguistics (3) Development of clas- sical Latin into major Romance languages. (Same as Spanish and Linguistics 4270.)

4310-20-30 French Literature of Eighteenth Century (3,3,3) Prereq: 2130, 2520, or equivalent.

4350-60-70 Medieval French Literature (3,3,3) Medi- eval works in modern French texts. Prereq: 2130, 2520, or equivalent.

4410-20-30 French Civilization (3,3) Prereq: 2130, 2520, or equivalent.

4450-20-30 French Literature of Nineteenth Century (3,3,3) Prereq: 2130, 2520, or equivalent.

4460 Readings in French Literature (3)

4470-20-30 French Literature of Twentieth Century (3,3,3) Prereq: 2130, 2520, or equivalent.

GRADUATE

General requirements for the master’s program as well as course descriptions are given in the Graduate Catalog.

Italian (584)

UNDERGRADUATE

B.A. Major: Consists of 36 hours of courses numbered 3110 or above, to include the following (or equivalents, with consent of the department): 3410-20-30 (Advanced Grammar, Composition, and Conversation, 9 hours); 3110-20-30 or 3510-20 (Aspects of Italian Literature, at least 8 hours); 9 hours of literature at the 4000 level; 10 additional hours selected from courses in literature; language, or civilization. Students may sub- stitute Foreign Study (4101) for certain courses; students with special interests, such as Comparative Literature, may make certain substitutions with consent of the department.

Minor: Consists of 24 hours in courses numbered 3110 or above, to include the following: 3410-20-30 (Advanced Grammar, Composition, and Conversation, 9 hours); 3110-20-30 or 3510-20 (Aspects of Italian Literature, at least 8 hours); 7 additional hours selected from courses in literature; language, or civilization. Courses in Italian literature in English translation may not be counted toward either a major or a minor.

1110-20-30 Elementary Italian (3,3,3) Must be taken in sequence. Three class meetings and 2 laboratory periods.

1510-20 Elementary Italian (4,4) Must be taken in sequence. 4 class meetings and 2 laboratory peri- ods.

2110-20-30 Intermediate Italian (3,3,3) Must be taken in sequence. Three class meetings and 2 laboratory periods.

2510-20 Intermediate Italian (4,4) Must be taken in sequence. 4 class meetings and 2 laboratory peri- ods.

2610-20 Panorama of Italian Culture (4,4) 2610—Survey of Italian culture from Roman era through the 17th century, 2620—Survey of Italian culture in the 18th, 19th, 20th centuries.

3110-29-30 Aspects of Italian Literature (3,3,3) Prereq: 2130, 2520, or equivalent. Recommended for litera- ture majors.

3310 Italian Literature in English Translation (3-4) Sicilian School, the Florentine School, Dante, Petrarch, Boccaccio, Machiavelli, Ariosto, Tasso. No change in credit hours after deadline. Option of 4 hours credit must present appropriate amount of extra work above that required for 3 hours.

3410-20-30 Advanced Grammar, Composition, and Conversation (3,3,3) Laboratory, work, drills, and tapes. Prereq: 2130, 2520, or equivalent.

3510-30 Aspects of Italian Literature (4,4) Prereq: 2130, 2520, or equivalent. Recommended for litera- ture majors.

4020 Italian Drama in English Translation (3-4) 20th-century theatre: operatic drama, the Grottesco, Pir- andello, De Filippo, Frail. No change in credit hours after add deadline. Option of 4 hours credit must present appropriate amount of extra work above that required for 3 hours.

4050-60-70 Dante and Medieval Culture (3,3,3) Read- ings and lectures in English for students majoring in or minoring in other departments. Readings, reports, and term papers in Italian for students majoring in or minoring in Italian. (Same as Comparative Literature 4050-60-70.)

4101 Foreign Study (1-16) See page 160.

4220 Petrarch (3) Prereq: 3130, 3520, or equivalent.

4230 Boccaccio (3) Prereq: 3130, 3520, or equiva- lent.

4240 Contemporary Poetry (3) Prereq: 2130, 2520, or equivalent.

4630 Contemporary Prose (3) Prereq: 2130, 2520, or equivalent.

4780 Italian Folklore (3) Folk arts, music, traditions, rituals, and lore of Italy from Middle Ages to present. (Same as Anthropology 4760.)

GRADUATE

See Graduate Catalog for requirements and course descriptions.

Portuguese (811)

UNDERGRADUATE

Minor: A minor only is offered in Portu- guese, consisting of 8 hours in the 3510-20 sequence (aspects of Portuguese literature) and 18 hours in the 4310-20-30 sequence (directed readings in Brazilian and Portu- guese literature, a course of variable content which may be repeated for credit). Students may substitute Foreign Study (4101) for any of the above courses.

1510-20 Elementary Portuguese (4,4) Must be taken in sequence. 4 class meetings and 2 laboratory peri- ods.

2510-20 Intermediate Portuguese (4,4) Must be taken in sequence. 4 class meetings and 2 laboratory peri- ods.

3000-01 Advanced Portuguese (3,3) An accelerated class for beginning students of Portuguese who already have a strong background in Spanish, French, or another language. Conversation and reading with a quick survey of grammar. Introduction to the culture and literature of Portugal and Brazil. Prereq: Permission of instruc- tor.

3510-30 Aspects of Portuguese Literature (4,4) Prereq: 2520 or equivalent. Recommended for litera- ture majors. (Same as Latin American Studies 3510-20.)
2518-28 Honors: Intermediate Spanish (4,4) Honors course for students of superior ability in Spanish. Incoming freshmen are admitted on the basis of a diagnostic test, high school average, and performance on the ACT. Class size limited to a maximum of 15 so that each student may receive more attention. Students follow enriched program with continuing emphasis upon speaking ability and with special emphasis on reading, including literary selections. Must be taken in sequence. Students who earn an A or B in 2528 automatically receive credit for Spanish 3000. Prereq: Spanish 1110-20-30, 1510-20, 1518-28, or equivalent.

2910-20-30 Spanish and American Literature in English Translation (3,3,3) 2910—Introduction to Spanish literature, using selections from prose, drama, and poetry of the medieval period; 3110—aspects of Golden Age Literature, including the mystics, Cervantes, and Lope de Vega; 3130—contemporary Spanish literature of the modern period; 3150—contemporary Spanish literature, including Unamuno, Ortega y Gasset, and Garcia Lorca. Prereq: 2130, 2520 or equivalent. Recommended for literary majors. Not offered for graduate credit.

3101-20-30 Advanced Grammar (3,3,3) Study (not usually chronological) of various periods of the literature; emphasis upon the genres (poetry, novel, drama) varies. May be taken in place of 3110-20-30. Prereq: 2130, 2520 or equivalent. (Same as Latin American Studies 3510-20-30.)

3140-20-30 Intermediate Composition and Conversation (3,3,3) Not offered for graduate credit.

4055-65-75 Survey of Spanish Literature (3,3,3) 4055—The Medieval Period: Cantar de mio Cid, Libro de buen amor, La Celestina. 4065-The Golden Age: Lope de Vega, the picaresque novel, the Mystical, Calderon, Cervantes. 4075-The Modern Period: Becquer, the Generation of '98, Unamuno, Ortega y Gasset, Cela, and others. Prereq: 3130-30. Third-year literature sequence in Spanish or consent of instructor.

4010 Foreign Study (1-16) See page 160.

4115 Cervantes (3) Life and works of Cervantes, focusing on Don Quijote, but including other works; includes an introduction to Cervantes criticism and bibliography across the centuries. Prereq: Third-year literature course in Spanish or consent of instructor.

4125 The Comedia (3) Study of Golden Age dramas with emphasis on works by Lope de Vega, Tirso de Molina, Alarcion, and Calderon de la Barca. Prereq: Third-year literature course in Spanish or consent of instructor.

4135 Generation of '98 (3) Study of the books of Granzel and Lain Entralgo on the Generation: readings from Unamuno, Gasset, Baroja, Azorin, Valle-Inclan, Antonio Machado, Jimenez, Benavente, Garcia Lorca, Ortega y Gasset. Prereq: Third-year literature course in Spanish or consent of instructor.

4140 Theatrical Spanish (1-3) Performance in one or more Spanish plays. Prereq: Intermediate Spanish (4) or equivalent and consent of instructor. May be repeated with consent of department. Maximum 6 hrs.

4160-70-80 Advanced Conversation (2,2,2) Intensive training in prepared and spontaneous conversations. Topics are chosen from travel and current events to literature and aspects of national culture. Prereq: Completion of 8 hours of courses on 3000 level.

4210 Phonetics (3) Prereq: 2130, 2520, or equivalent.

4220-30 Advanced Grammar (3,3) Prereq: 2130, 2520, or equivalent.

4250 Introduction to Descriptive Linguistics (3) (Same as French, German, Russian, and Linguistics 4250.)

4260 Introduction to Historical and Comparative Linguistics (3) (Same as French, German, Russian, and Linguistics 4260.)

4270 Romance Linguistics (3) (Same as French and Linguistics 4270.)

4410 Spanish Civilization (3) Prereq: 2130, 2520, or equivalent.

4430-30 Latin American Civilization (3,3) Prereq: 2130, 2520, or equivalent. (Same as Latin American Studies 3510-20-30.)

4510 Special Topics in Nineteenth Century Spanish Literature (3) Prose, poetry and theatre of Spain in the Nineteenth Century. This course may focus on a genre, movement, or combination of several literary aspects. Course may be repeated with consent of department. Maximum credit 9 hrs. Prereq: Intermediate Spanish or equivalent.

4618 Honors: Readings in Literature (3) Prereq: 3130, 3330, or equivalent and at least 3.0 on all university work. No credit for grade less than B.

4610-20-30 Topical Survey of Spanish American Literature (3,3,3) 4610—Prose fiction: major examples of the short story and novel. 4820—Poetry: landmark figures of past and present. 4830—Drama and essay: the modern period. (Same as Latin American Studies 4810-20-30.)

GRADUATE

The Master's Program

See Graduate Catalog for requirements and course descriptions.

Russian

See Germanic and Slavic Languages.

Russian and East European Studies

See Cultural Studies.

Social Work (906)

Associate Professors: F. R. Baskind (Director), Ph.D. A.C.S.W., Connecticut; F. J. Spicuzza, M.S.W., Tennessee.

Assistant Professor: V. G. Williams, M.S.W., A.C.S.W., Howard.

B.S. Major: Consists of 62 hours in professional foundation courses: Social Work 2000 (4), 2500 (3), 3400-10 (4,4), 4103 (3,3), 3110-4120-30 (4,4,4), 4200 (4), 3500-10 (4,4), 4520-30 (3,3) which must be taken in sequence; 19 hours in the corequisite course Human Services 3200 (4), Sociology 3910-20 (4,4), Child and Family Studies 3515 (3), and an Economic elective (4) and 27 hours in the required courses, Zoology 2510-20-30 (12), Anthropology 2530 (4), Biological Sciences 2520 (4), Psychology 2540 (3), and Women's Studies 2310 (4). Students who graduate from this program are prepared for beginning professional practice at the baccalaureate level as a social worker. The program is accredited by the Council on Social Work Education. For a complete description of the professional program see page 158.
Sociology (915)

Professors:
D. M. Betz, Ph.D. Michigan State; J. A. Black, Ph.D. Iowa; D. J. Champion, Ph.D. Purdue; L. Ebener (Vice Chancellor for Administration), Ph.D. Pennsylvania; D. W. Hastings, Ph.D. Massachusetts; D. R. Ploch, Ph.D. North Carolina; N. E. Showy, Ph.D. Illinois (Urbana); S. E. Wallace, Ph.D. Minnesota.

Associate Professors:
T. C. Hoed (Acting Head), Ph.D. Duke; D. Clelland, Ph.D. Michigan State; R. G. Ferrin, Ph.D. British Columbia.

Assistant Professors:

Instructor:
D. Harris, M.A. Tennessee.

UNDERGRADUATE

B.A. Major:
Consists of 36 upper-division hours in sociology. Eight lower-division hours in sociology are prerequisite to a major. Students will select 20 hours within one of the following six programs of study:
(1) Humanistic Sociology (Designated for students who wish to develop an appreciation of how the social world works and of the individual's place in it. Courses include: Collective Behavior 3010, Resource Scarcity and Social Change 3015, Social Psychology 3310, Prejudice and Racism 3330, Stratification 3350, Urban Environment 3410, American Society 3780, Sociological Theory 3810, Social Research 3910, Sociology of Sport 4050, and Social Movements 4930.

(2) The Social Service program provides a broad background for students interested in helping professions. Courses include: Social Psychology 3130, Deviance 3140, Sociology of Medicine 3160, The Family 3220, Poverty and Inequality 3340, Urban Problems 3420, Prejudice and Racism 3330, Stratification 3350.

(3) The Pre-professional program assists in preparation for graduate study in law, urban studies, planning, ecology, and sociology. Courses include: Political Sociology 3030, Urban Environment 3410, Occupations as Organizations 3620, Sociological Theory 3810, Social Research 3910, Elementary Social Statistics 3920, Social Change 4540, and Formal Organization 4550.

(4) The Research Analyst program is preparation for data analysis in public and private research organizations and in business and industry. Courses include: Stratification 3350, Social Research 3910, Elementary Social Statistics 3920, Population Problems 4110, Theory of Attitudes and Values 4160, and selected courses in the social sciences. Students should consult with the Undergraduate Coordinator.

(5) The Human Management program is preparation for those who manage people as part of their role. Courses include: Social Psychology 3130, Gender in Society 3150, Communicative Processes 3320, Prejudice and Racism 3330, Occupations 3810, Occupations as Organizations 3920, Social Research 3910, and Formal Organizations 4560.

(6) The Criminal Justice program is preparation for careers in corrections, law enforcement, parole and probation, and criminology. Courses include: Collective Behavior 3010, Deviance 3140, Prejudice and Racism 3330, Juvenile Delinquency 3510, Social Research 3910, Sociology of Law 4030, Punishment and Corrections 4130, and Criminology 4310. A Minor consists of 24 upper-division hours. Eight lower-division hours in sociology are a prerequisite to a minor.

1510 General Sociology (4) Social origins, structures, forces, processes, and products.

1518 Honors: General Sociology (4) Enriched introduction to sociological principles and research. Permission of department required. B average or better. Selected freshman.

1520 Sociology of Social Problems (4)

1528 Honors: Social Problems (4) Permission of department required. B average or better. Selected freshman.

1530 Contemporary Social Change (4) Introduction to basic concepts and principles used in analyzing social change. Emphasis on contemporary society.

2510 Introduction to Sociology Through Literature (4) Social processes as social control and socialization, sociological concepts such as status and role, and the other elements of a basic introduction to sociology are examined in this specialized introduction to sociology.

2520 Social Problems: Crime and Justice (4) Specialization introduction to social problems confined primarily to an analysis of American experiences in areas such as the cause of crime, the operation of the police and courts, and the correctional process.

3010 Collective Behavior (4) Analysis of collective phenomena emphasizing crowd behavior, responses to disasters, popular crazes, mass movements, and social protests.

3015 Resource Scarcity and Social Change (4) The relationship between scarcity of natural resources and changes in societal beliefs and social structure. Topics include sociological analysis of physical limits to growth and collective action problems.

3020 Political Sociology (3) Sociological analysis of American political system. Attention given to consideration of concept of power, elitist-pluralist controversy, end-of-ideology debate, and related topics.

3120 Social Psychology (4) Social psychological analysis of social behavior emphasizing its acquisition, its enactment and its dynamic nature.

3140 Deviance and the Social Order (4) Examination of relations between deviance and social order. Various types of social deviance considered, with focus on their structure, social factors related to process of becoming deviant, and consequences of deviant conduct.

3160 Gender in Society (4) Exploration of gender in society utilizing various sociological perspectives with special focus on the relationships between social structures, social roles and gender identities. (Same as Women's Studies 3150).

3160 Sociology of Medicine (4) Introduction to sociological approach to study of health and medicine. Emphasis on relationship of demographic characteristics to the prevention and control of disease, the organization of health care facilities, and staff-patient relationships.

3220 The Family (4) Examines theoretical frameworks and methodological approaches and their
3320 Sociology of Communicative Processes (4) Sociological dimensions of communication and of communication processes at the organizational and interpersonal levels.

3330 Prejudice and Racism in the United States (4) (Same as Afro-American Studies 3330)

3340 Comparative Poverty and Inequality (4) Comparative description and sociological analysis of poverty and inequality in the modern world. (Same as Afro-American Studies 3340)

3350 Social Stratification (4) Study of economic class, political class, status groups and power hierarchies; causes and consequences of structured social inequality.

3410 Urban Environment (4) Introduction to urban environment; emergence of the city; cities of New World; rise of metropolitan America; urban society, social worlds within urban environment.

3420 Urban Problems (4) Crises and the urban conscience; urban problems and interventions; housing, urban renewal, and neighborhood conservatism; the urban poor, the disoriented, and alienated; planning for urban youth; the urban elderly; the social and physical planning process; new towns.

3510 Juvenile Delinquency (4) Critical assessment of nature of the delinquency problem, major sociological approaches and their implications for control, and administration of juvenile justice.

3610 Sociology of Occupations (4) Introduction to occupations and their relation to the individual and society; technology and occupations; unequal rewards and occupations; social organization and occupations.

3620 Occupations as Organizations (4) Occupations as interest groupings; their impact on work settings and the wider community.

3672 Religion and Society in Japan (4) (Same as Religious Studies 3672)

3710 Corporate and Organizational Deviance (4) An introduction to analysis and understanding of crime and deviance committed by organizations. Intended for students from diverse curricula, the course examines case studies of corporate and organizational deviance. A principal focus is a critical examination of organized responses to this type of deviance, especially the operation of regulatory agencies.

3780 American Society (4) An analysis of the institutional organization of contemporary American society, with attention to institutional interrelations (e.g., between the economic, political, and social systems), characteristics of important social groups (e.g., educators, political parties, and workers), and major forces of change.

3810 Sociological Theory (4) Survey and analysis of development of sociological theory from time of Comte to present.

3910 Introduction to Social Research (4) Scientific method applied to social phenomena; formulating test hypotheses; techniques for collecting data; measuring social variables; interpreting research findings. Lectures and laboratory.

3920 Elementary Statistical Methods (4) Statistics used in social research; elementary descriptive techniques; measures of central tendency; dispersion; elementary inferential statistics; tests of significance for parametric and non-parametric data.

4000 Special Topics (4) Student-generated course offered at convenience of department upon student initiative. Scope of subject matter determined by student and instructor with consent of department. Elective credit only. Prereq: Determined by department.

4030 Society and Law (4) General treatment of social origins and consequences of law and legal process. Particular emphasis on problems of law and social change, and on structure and functioning of legal sanctions. Law and law-like phenomena in formal organizations and primitive societies.

4050 Sociology of Sport (4) Social organization and meaning of sport. The difference between sport and play and games, social stratification and sport, sport as an occupation, place of sport in mass culture, sport subcultures, and reciprocal influences of sport and cultural milieu.

4102 Off-Campus Study (1-16) See page 160.

4103 Independent Study (1-16) See page 160.

4110 Population Problems (4) Demographic factors and social structure trends in fertility, mortality, migration, population growth, distribution, and composition; population policy.

4120 Topics in Social Psychology (4) (Same as Psychology 4120).

4160 Theory of Attitudes and Values (4) Study of organization, functions and measurement of attitudes and values; approaches to attitude change; and relationship to attitudes, values and behavior.

4190 Socialization Across the Adult Life Cycle (4) The social process through which people acquire skills and abilities and undergo identity transformations and types of adult socialization (e.g., occupational, institutional) are emphasized.

4220 Urban Ecology (4) Examination of public, private, and collective, and individual space. Classical school ecology, its neoclassical revisers, social area analysis, and cognitive symbolic ecology emphasized. (Same as Urban Studies 4330).

4410 Educational Sociology (3) (Same as Educ. C & I 4410).

4500 Criminology (4) A systematic inquiry into the causes and control of crime and criminals. Emphasis is on causation.


4520 Criminal Justice II: Corrections (4) The historical development of institutions and programs such as juvenile training schools, prisons, probation and parole. Analysis of their operation and impact is special focus. Discusses evaluation research and its application to correctional programs. Recommended: Sociology 4500.

4530 Community Organization (4) Structure; function; linkages. Change and development and important community studies. Emphasis on sociological analysis, not on implementation of change.

4540 Development and Underdevelopment (4) Critical examination of theories which attempt to explain different development in the modern world. In-depth examination of development issues in selected regions of the world. (Same as Religious Studies 4540).

4560 Formal Organization (4) Analysis of bureaucratic organization, division of labor, delegation of authority, channelled communication under system of rationality.

4730 Sociology of Aging (4) Emphasizes how roles and statuses change with age in relation to the major social institutions and explores the impact that the rapidly increasing number of older people have on society, as well as the effect of society on older people.

4820 American Minority Groups (4) Minority groups and social structure in American society; analysis of intergroup relations with attention given to both past and present relationships of selected groups to broader society.

4930 Social Movements (4) Development, organization, and function of social movements; attention is given to ideology, leadership, and organization of political, religious, and other types of social moves.

4940 Sociology of Religion (4) Interrelationship of society, culture, and religion. (Same as Religious Studies 4940).

4980 Honors: Sociology (4) Intensive study and research under faculty direction, including writing of senior thesis. Course credit may be split into two quarters. Candi-
dacy is open only to majors who have shown a marked capability for independent study and have grade averages of at least 3.0 in the College of Liberal Arts and 3.2 in the department. Prereq: Senior standing.

GRADUATE

The General requirements for the master's and doctoral degrees as well as course descriptions are in the Graduate Catalog.

Spanish

See Romance Languages.

Speech and Theatre

Professors:


Associate Professors:


Assistant Professors:


UNDERGRADUATE

B.A. Major: The Department of Speech and Theatre offers a single undergraduate degree, the Bachelor of Arts in Speech and Theatre. Majors must declare a concentration in either (a) Speech or (b) Theatre.

(a) Major in Speech and Theatre (Speech concentration)

Speech 1211-21 is a prerequisite to a concentration which consists of: (a) 2 of the following 4 Speech courses: 2021, 2311 (or 3551 by permission), 2331, 2351; (b) 30 additional hours of Speech courses numbered 2000 or above2; (c) at least 24 of the hours listed above must be numbered 3000 and above.

(b) Major in Speech and Theatre (Theatre Concentration)1

Theatre 1300-30-40 is prerequisite to a concentration which consists of: (a) Theatre 2111, 2211-21, 2231, 2252-53-54, 3252-53-54, 3451; (b) 19 additional hours of Theatre courses numbered 2000 or above1, 12 hours of which may be cognate areas approved by the department; (c) at least one half of the hours in the concentration must be earned at the 3000-level and above.

Minors: Two minors are offered: (a) Speech and (b) Theatre.

(a) Minor in Speech:

i. Prerequisites: Speech 1211, 2121.

ii. Requirements: 24 hours in Speech courses numbered above 3000.

1 Students majoring in Speech and Theatre with a Speech Concentration may choose an emphasis in Oral Interpretation.

2 Of these hours may be in cognate areas approved by the Department.

3 Students choosing a Theatre Concentration must emphasize one of the following areas: history and criticism, playwriting, performance, production or oral interpretation.
Speech (943)

1211 Communication and Society (4) Study of communication media (posters, speeches, songs, plays, demonstrations, film) and social change.

1221 Introduction to Speech Communication (3) Fundamental theories and practices with particular reference to interpersonal, intergroup, group and public communication.

2311 Public Speaking (4) Basic principles of speech preparation and delivery. Students may not receive credit for both 2311 and 2312.

2312 Public Speaking (4) Includes the material of Speech 2311 with additional work on methods for communicating effectively. Permission of instructor required. Students may not receive credit for both 2311 and 2312.

2331 Argumentation and Debate (4) Reasoned decision-making with emphasis on analysis, evidence, reasoning, constructing and refuting arguments.

2351 Interpersonal Communication (4) Communication theory in its application to self-talk, casual communication, structured communication, and intimate communication.

2361 Business and Professional Speaking (4) Basic principles of oral communication within organizations. Listening skills, interviewing techniques, formal presentation (including technical papers and reports), conference planning, selecting and employing visual aids, informal communication systems, communicating corporate image, and other aspects of business and professional communicating.

2410-20-30 Intercollegiate Forensics (1,1,1) Special techniques in debate preparation with emphasis on analysis, evidence, reasoning, constructing and refuting arguments.

1320-30-40 Introduction to Theatre (3,3,3) 1320—Understanding theatre: thought, philosophy and aesthetics. Emphasis on the making of the modern theatre. 1340—Practice of theatre: collaboration of artists and craftsmen.

2121-22 Acting (4,4) 2121—Realism: readings, improvisations and scene study. 2121—Extended Realism: voice and movement for the stage, basic rehearsal techniques. Prereq: Consent of instructor for 2121. Production participation required.

2211-22 Stagecraft (4,4) 2211—Techniques of scenery construction. 2211—Fundamental methods of stage lighting. Production participation required.

2231 Basic Stage Costuming (4) Costume design and construction: basic theory and technique. Production participation required.

2252-53-54 Survey of World Dramas (3,3,3) 2252 Includes Greek, Roman, Medieval and Eastern forms of drama; 2253 covers Elizabethan through nineteenth century drama; and 2254 deals with the study of realism through contemporary drama.

3121-22 Advanced Acting (4,4) Historical styles of acting. 3121—17th and 18th centuries. Prereq: Consent of instructor. Production participation required.

3151 Theatre Practicum: Performance (1—4) Supervised work on theatrical productions. Prereq for credit only to theatre majors or with consent of department. Prereq: Consent of instructor. May be repeated. Maximum credit 4 hours.

3152 Theatre Practicum: Production (1—4) Supervised work on departmental productions. Prereq for credit only to theatre majors or with consent of department. Prereq: Consent of instructor. May be repeated. Maximum credit 4 hours.

3153 Summer Repertory Productions (1—4) Supervised work on summer repertory productions. Prereq for credit only to theatre majors or with consent of department. Prereq: Consent of instructor. May be repeated. Maximum credit 4 hours.

3214-15 Technical Theatre (4,4) Special techniques in scenery and property construction; stage management; problems in basic technical theatre practice. Prereq: 2211-22 or consent of instructor.

3221-22 Introduction to Scene Design (4,4) 3221—Problems in stage design with reference to space and form, movement, scale, and style; rudiments of rendering and ground plans. Prereq: 2211 or consent of instructor. Production participation required. 3221—Play interpretation through scenic means; setting as environment for dramatic action; rudiments of model making. Must be taken in sequence.

3252-53-54 History of the Theatre (4,4,4) Drama in performance with particular emphasis in theatre architecture, scene design, and acting styles. 3252—Antiquity to the Renaissance, 3253—The European theatre, 1650-1850, 3254—Modern theatre.

3282-83 History of the American Theatre (3,3) Development of the Theatre as a social institution in American life. 3282—From its beginnings to 1900. 3283—From 1900 to present.

3231-22 Introduction to Lighting Design (4,4) Mechanics of stage lighting; elementary theory; problems in basic lighting practice. Must be taken in sequence. Prereq: 2211-21 and consent of instructor.

3451-52 Play Directing (4,4) Must be taken in sequence. Prereq: 2211-21.

3511-12 Introduction to Costume Design (4,4) Costume as expression of character on stage; the application of costume history to specific design projects. Prereq: 2211-21 and consent of instructor.

3611 Principles of Theatrical Design (4) Fundamental principles of design; visual and structural relationships. Projects will be assigned to develop understanding and perception. Prereq: Consent of instructor.

4133-34 Special Problems in Acting (3,3) Advanced exercises in voice and movement; preparation of major role under performance conditions. Prereq: 3121-22 and consent of instructor.

4151 Theatre Practicum: Performance (1—4) Continuation of 3151. Available for credit only to theatre majors or with consent of instructor. May be repeated. Maximum credit 4 hours.

4152 Theatre Practicum: Production (1—4) Continuation of 3152. Available for credit only to theatre majors or with consent of instructor. May be repeated. Maximum credit 4 hours.

4153 Summer Repertory Productions (1—4) Supervised work on summer repertory productions. Available only to members of summer company by consent of instructor. May be repeated. Maximum credit 4 hours.

4214-15 Advanced Technical Theatre (4,4) Advanced techniques in stage management; advanced scenery and property execution; special problems in technical theatre.

4241-42 Advanced Scene Design (4,4) 4241—Descriptive drawing as an approach to three-dimensional design; theatrical graphic standards and preparation of design drawings, 4242—Perception of surface color; construction of spatial illusion through color with reference to rendering, scene painting, and preparation of painted scenery. Must be taken in sequence. Prereq: 2211-21, 3221-22, and consent of instructor.

4341-42 Advanced Lighting Design (4,4) Relationship of light to setting in creating stage environment. Must be taken in sequence. Prereq: 3211-22 or consent of instructor.

4441-42 Advanced Play Directing (4,4) Problems of play interpretation; directing period plays; preparation of a play for public performance. Must be taken in sequence. Prereq: 3451-52 and consent of instructor.

4541-42 Advanced Theatre Costume Design (4,4) Advanced problems in costume design and construction. Prereq: 3511-12, 4442. 4442 Scenery Painting (3) Introduction to materials, techniques and principles of the craft. Emphasis on gaining skill and understanding through studio experiences. Prereq: Consent of instructor.

4751-52 Dramatic Theory and Criticism (3,3) 4751-52 Playwriting (4,4) Prereq: Consent of instructor.

GRADUATE Consult the Graduate Catalog for listing of graduate level courses.

Speech and Theatre (945)

2021 Voice and Diction (4) Voice production; attention to individual speech problems.
which are on-going structured conversations on a particular topic or nexus of topics; 2) learning communities, which are year-long residential educational environments focused on a common theme; and 3) interdisciplinary courses, which are intercollegiate and team-taught. University Studies explores important contemporary issues which are sufficiently fundamental to involve the study and attention of faculty and students from all colleges. Currently, faculty and students in the Program are investigating three broad areas of interest: 1) Technology, Society, and the Common Good; 2) Land, People, and the Common Good; and 3) Aging, Society, and the Common Good. Further information is available through the Dean's Office, The College of Liberal Arts, 226 Ayres Hall.

1000 The First Course (3) An introduction to university education as an adventure in personal growth and professional development. ENC.

2001-02-03 University Learning Seminar (1,1,1) Laboratory course for facilitating integrative thinking and learning. Only for students enrolled in a University Learning Community.

2110-20-30 Topics in University Studies (3,3,3) Variable content course and problem-solving approaches to explore interdisciplinary issues. Only for students enrolled in a University Learning Community.

3110-20 Technology, Society and the Common Good (3,3) Introduction to the interlocking relationships within the entire academic and professional community. Three-quarter sequence designed for students of all colleges. First quarter—global perspectives; second quarter—decisions for the future. Extensive use of films, field trips, student discussion.

Women's Studies

See Cultural Studies.

Zoology (995)

Professors:
J. H. Abel (Head), Ph.D. Brown; R. M. Bagby, Ph.D. Illinois; D. L. Bunting, II, Ph.D. Oklahoma State; J. Q. Carlson (Emeritus), Ph.D. Pennsylvania; A. C. Cole (Emeritus), Ph.D. Ohio State; A. C. Echternacht, Ph.D. Kansas; D. A. Ehler, Ph.D.

Minnnesota; R. C. Fraser (Emeritus), Ph.D. Minne-

sota; B. Hochman, Ph.D. California (Berkeley); J. C. Howell (Emeritus), Ph.D. Cornell; E. T. Howley, Ph.D. Western; W. J. Leac, Ph.D. London (Eng-

land); A. W. Jones (Emeritus), Ph.D. Virginia; J. R. Kennedy, Ph.D. Iowa; J. N. Liles, Ph.D. Ohio State; J. A. MacCabe, Ph.D. California (Davis); S. E. Rie-

chert, Ph.D. Wisconsin; L. E. Roth, Ph.D. Chicago; C. A. Shivers, Ph.D. Michigan State; J. T. Tanner (Emeritus), Ph.D. Cornell; H. G. Welch, Ph.D. Flori-

da; M. G. Whiteside, Ph.D. Indiana; G. L. Whitson, Ph.D. Iowa.

Associate Professors:
K. D. Burnham, Ph.D. Iowa; D. J. Fox, Ph.D. Johns Hopkins; N. B. Greenberg, Ph.D. Rutgers; M. A. Handel, Ph.D. Kansas State; M. L. Pen, Ph.D. Pennsylvania; S. L. Pimm, Ph.D. New Mexico State; G. L. Vaughn, Ph.D. Duke.

Assistant Professors:
T. T. Chen, Ph.D. Florida; G. F. McCracken, Ph.D. Cornell.

Ph.D. Iowa.

University Studies (984)

(Non-Departmental)

The University Studies Program has three objectives: 1) to foster interdisciplinary teaching and scholarship in the promotion of superior intercollegiate, general education; 2) to provide a mechanism for integration and synthesis within the university community; and 3) to nurture a spiritual and intellectual development of faculty and students. To these ends, the Program sponsors three types of activities: 1) faculty colloquia,
Not available for major credit in zoology and biology.

2910—What we are, diversity of life forms, uniqueness of man, cell biology, reproduction, development, principles of genetics. 2526—How we live, physiology of movements, utilization of food, respiration, circulation, excretion. 2530—Survival, infection and immunity, aging, vascular disorders, genetic disorders, cancer, nutritional inadequacies, human ecology, genetic engineering. May be taken in any sequence. 3 hrs. and 1 lab.

2920-30 Human Physiology (4, 4) Fundamentals of biology; principles of human physiology. Must be taken in sequence. Prereq: One year of college chemistry. 3 hrs. and 1 lab.

2930 Human Anatomy (4) Gross and Microanatomy of the Human. Prereq: 1 year of an introductory Biology course or Zoology 2920-30 or equivalent. 2 hrs. and 2 labs. (Does not carry credit for Biology or Zoology Majors).

3050 Comparative Vertebrate Embryology (5) Developmental morphology of selected vertebrates. 2 hrs. and 3 labs.

3060 Comparative Vertebrate Anatomy (5) Phylogeny and anatomy of organ systems. Dogfish shark and cat primarily used in laboratory. Three hrs. and 2 labs.


3090 Biology and Human Affairs (3) (Same as Botany 3090.)

3110 General Entomology (5) Introduction to insects; basic structure, development, behavior; classification of insect orders and representative families; interpretation and use of keys. 3 hrs. and 2 labs.

3150 Invertebrate Zoology (5) Biology of invertebrates (except insects) with emphasis on ecology and behavior. Prereq: Biology 3150. 3 hrs. and 2 labs.

3220 Physiology of Reproduction (3) (Same as Animal Science 3220.)

3320 Histology (4) Study of animal tissues. Prereq: Biology 3120. 2 hrs. and 2 labs.

3410 Bioethics (3) Relationship between biological discoveries and human values. Open discussion of selected dilemmas arising from new knowledge about medicine, behavior, resources, and technology.

3720 Ethology and Sociobiology (3) Basic concepts of the evolutionary approach to behavior with special reference to controversial issues in applications to psychology, the social sciences, and the arts. (Same as Psychology 3720.)

3880 Junior Seminar (1-3) Topic of current interest. May be repeated for credit with consent of department. Maximum 6 credit hours.

3920 Human Endocrinology (4) Basic course in human endocrinology with emphasis on the practical diagnosis of hormone levels for analysis of glandular function and treatment of endocrine abnormalities. Three lectures and 1 discussion. Prereq: a course in physiology. (Does not carry credit in the Zoology major or minor.)

3990 Zoology Colloquium (1) Weekly discussions of contemporary interest. Open to sophomores, juniors, and seniors. Each Zoology major is required to take a minimum of one hour. Grading: S/N/C. May be repeated. Maximum 3 hours.

4007-8-9-10-11-12-13-14-15-16-17 Minicourse in Zoology (2, 2, 2, 2, 2, 2, 2, 2) Selected, advanced topics in zoology, concentrated in time and subject matter. Consult departmental listing for actual topics offered. Prereq: As posted. May be repeated for credit. Maximum 12 hours.

4050 Developmental Biology (4) Experimental morphogenesis, fertilization, cellular interactions, hormonal effects, and related topics with examples drawn primarily from invertebrates and vertebrates. Prereq: 3050. 2 hours and 2 labs.

4110-20-30 Undergraduate Research Participation (2, 2, 2) Experience in active research projects under supervision of staff members. Prereq: Junior or senior standing and prior consent of instructor.

4140 Practicum in Zoology (1-3) Participation in practical application of zoology in community institutions, government organizations, and industry. Approximately 5 hours of involvement per week. Prereq: Biology 3110, 3120, 3130, and senior standing.

4180 Mammalogy (4) Classification, evolution, distribution, reproduction, populations, and behavior. 2 hours and 2 lab or field periods.

4200 Ichthyology (5) Classification, collection and identification, distribution, life histories, and economic importance of fishes. Prereq: Biology 2130 or consent of instructor. 2 hours and 2 lab or field periods.

4210 Cell Physiology (5) Development of modern concepts in cell physiology from point of view of information and control which examines kinetics and integration of cellular activities. Prereq: Cell biology or any physiology, and organic chemistry. Biochemistry recommended. 3 lectures and 1 lab.

4250 Environmental Physiology (4) Survey of physiological mechanisms in the functioning of these organelles. Prereq: Biology 3130 or consent of instructor. 2 hours and 2 lab or field periods.

4270 Immunology (3) (Same as Microbiology 4270.)

4280 Comparative Endocrinology (5) Comparative analysis of the physiology and morphology of endocrine glands in vertebrates and invertebrates. Their role and interaction in maintenance of the organism and species. Prereq: 3060 or equivalent. 3 hours and one 3-hour lab.

4290 Herpetology (4) Classification, distribution, life histories, collection, and identification of amphibians and reptiles, primarily of local species. 2 hours and 2 lab or field periods.

4300 Ornithology (4) Morphology, physiology, behavior, reproduction, populations, evolution, field identification. 2 hours and 2 labs or field periods.

4320 Microtechnique (4) 3320 recommended. 2 hrs. and 2 labs.

4330 General Cytology (4) Study of cellular organelles at the light and electron microscope levels and the functioning of these organelles. Prereq: Biology 3120.

4369 General Genetics Laboratory (2) (Mainly Drosophila experiments designed to illustrate basic principles of inheritance. Prereq: Biology 3110. 2 labs.

4380 Organic Evolution (3) Modern concepts of animal evolution. Prereq: Biology 3110.

4390 Human Genetics (3) Principles and problems of inheritance in man. Prereq: Biology 3110.

4410 General Parasitology (4) Morphology, taxonomy, and ecology of parasitic worms and protozoa, with emphasis on host-parasite relationships. 3 hrs. and 1 lab. Prereq: Biology 3130 or consent of instructor.

4560 Introduction to Aquatic Ecology (4) Introduction to the physicochemical nature of the inland waters. Biotic communities are described and their interrelationships explored. Prereq: Chemistry 1110-20-30 and Biology 3130. 2 hrs. and 2 labs.

4700 Arachnology (4) Biology of spiders, mites, scorpions, and relatives. Prereq: 3110 or 3150. 2 hrs. and 2 labs.

4720 Comparative Animal Behavior (4) Methods and principles. (Same as Psychology 4720.)

4729 Comparative Animal Behavior Laboratory (4) Laboratory and field studies. Coreq: 4720 (Same as Psychology 4729.)

4810-20-30 Insect Morphology and Taxonomy (4, 4, 4) 4810—Internal morphology of both generalized and specialized forms. 4820—Taxonomy of major orders. 4830—Taxonomy of minor orders and immature forms. Prereq for 4820-30: 3110 or consent of instructor. 2 hrs. and 2 labs.

4940 Physiology of Exercise (4) Functions of body in muscular work; physiological aspects of fatigue, training, and physical fitness. Prereq: 2920-30 or 3080. 3 hrs. and 1 lab.

4990 Perspectives in Zoology (3) Critical analysis of selected readings in biology. Prereq: Senior standing.

GRADUATE Consult the Graduate Catalog for listing of graduate level courses.
The College of Nursing at The University of Tennessee, Knoxville, was established in July 1971 in response to a long-recognized and well established need for nurses prepared at the collegiate level and as part of a statewide comprehensive plan approved for The University of Tennessee system by its Board of Trustees and for the state by the Tennessee Higher Education Commission.

The undergraduate program offered by the college is fully accredited by the National League for Nursing. It combines the unique resources of the University with those of several cooperating health agencies in a manner which enables both faculty and students to become aware of and responsive to an evolving dynamic culture, rapid scientific and technological advances, and changing concepts of health, of human beings, and of society.

The baccalaureate nursing program has as its central focus and frame of reference human beings, society, and health. It is based on the belief that nursing has equal concern for the prevention of illness, the promotion of health, and the care of the sick.

General education courses, nursing courses, and electives are organized in a manner designed to promote creative thinking and innovative approaches at both the theoretical and practical levels. General education courses are incorporated into the nursing curriculum at both lower- and upper-division levels. Certain aspects of general education, primarily in the natural and behavioral sciences, are prerequisite to any courses in the nursing major. Other supporting courses are taken concurrently with nursing courses.

Since nursing is a humanistic science and an art, nursing courses provide theoretical content which draws heavily from the theories and principles of related sciences and disciplines. This content is organized, integrated, and synthesized in a manner which promotes a comprehensive understanding of the life process from conception through senescence. In nursing practice, this knowledge and understanding is combined with intellectual judgments, practical skills, and human compassion. Opportunities to develop this kind of expertise in a variety of settings and situations are integral components of all nursing courses.

A broad base of general education, a thorough study of human behavior, emphasis on health maintenance and promotion, and a strong family and community orientation are essential components of baccalaureate education in nursing. It is these characteristics which differentiate it from other types of basic nursing education.

Because of the expanding role of the professional nurse, the increasing complexity of health care delivery, and the ever-changing health needs of society, the goals of the program are to prepare graduates who are able to:

1. Assume beginning leadership positions in nursing in a variety of settings.
2. Work collaboratively with other health professionals.
3. Function as socially conscious and contributing citizens.
4. Pursue advanced education on either a formal or an informal basis.

GENERAL REQUIREMENTS

In order to obtain a Bachelor of Science in Nursing Degree, students are required to successfully complete 12 quarters of full-time study or their equivalent. Students may enroll in nursing courses following successful completion of clearly specified lower-division courses. These courses may be taken at The University of Tennessee or at any accredited junior or senior college or community college. One hundred eighty-nine quarter hour credits must be successfully completed in order for the student to be awarded the Bachelor of Science in Nursing Degree.

NOTE: Students are advised to consult the University's degree requirements as stated in the front of this catalog as well as the requirements for the College of Nursing.

All degree seeking students in the College of Nursing should also consult College Association requirements on p. 17 of this catalog.

GRADING POLICY

The satisfactory-no credit option is not permitted for any nursing course except 3900.

The minimum acceptable grade for all courses in the nursing curriculum, other than electives, is a C; a course in which a grade of D or F is achieved may be repeated once. If a grade of D or F is achieved on the second attempt, the student will be required to withdraw from the program.

Any student who achieves a grade of D or F for more than two clinical nursing courses will be required to withdraw from the program even if previous courses in which the grades of D or F were achieved have been repeated and a grade of C or better has removed the D or F. Clinical courses are: 2800, 3010, 3210-20, 3410, 4110, 4230, 4510-20, 4760.

If a student receives an Incomplete (I) in a required nursing course, the Incomplete must be removed before the student may enroll in any other required nursing courses. If a student's clinical laboratory performance for any nursing course is deemed unsatisfactory, the grade for that course will be an F regardless of any grades related to the theoretical component of the course. If the unsatisfactory clinical performance is characterized by dangerous, inappropriate, or irresponsible behavior, behavior which actually or potentially places the patient's or family's welfare in jeopardy, the student will be required to withdraw from the program.

ASSOCIATION AND PROGRESSION

POLICIES AND PROCEDURES

1. High School applicants will automatically be associated with the college if they have a GPA of 3.00 or higher and an ACT composite of 22 or higher.

2. Other high school applicants who are otherwise admissible to the University will be granted university student status with 'nursing interest.' All university students with a nursing interest will be
assigned a faculty advisor from the College of Nursing.

(3) University Students with an interest in nursing as well as students from other UTK colleges and schools may apply for association with the college by change of major after they have completed 45 quarter hours of university work with a cumulative GPA of 2.5 or higher. This work must include three quarters of English, three quarters of chemistry and one quarter each of mathematics, biology, psychology, and sociology. A grade of C or higher must be achieved in each of these courses. Applications for association with the college by change of major must be received in the Student Affairs Office no later than the fifth class day of January. Students will be notified about their status no later than the last working day of January.

(4) Transfer students from outside UTK will also be classified as university students with an interest in nursing. Once they are admitted to the university with that status they may also apply for association with the college by change of major after they have met the requirements stipulated in number 3 above.

(5) If the number of applicants exceeds the number of students that the college can admit each January, selections will be based on the cumulative GPA for all required lower-division courses completed. In other words, a GPA of 2.50 does not automatically qualify an applicant for association with the college. Rather, it makes the applicant eligible to be considered for association.

(6) During the fifth class day of January in which students expect to complete all lower-division requirements, a petition for progression to upper-division nursing courses must be submitted. Petition forms are available in the college’s Student Affairs Office, and must be submitted to this office no later than the fifth class day of January. Students selected for progression are notified no later than the day prior to the preregistration period for the spring quarter. Students selected for progression must successfully complete Nursing 2800 prior to enrollment in upper-division nursing courses. This course is offered in both the spring and summer quarters. Only students selected for progression may enroll in Nursing 2800.

(7) If the number of students qualified to begin upper-division nursing courses exceeds the number that can be accommodated during the following fall quarter, the cumulative grade point average will be utilized to select those students who may enroll in upper-division nursing courses. Qualified students not selected are eligible to reapply for progression during the next preregistration period.

(8) Registered nurses who apply for association with the college are automatically associated if they are admissible to the university. RN’s must complete all lower-division and nursing courses specified in the curriculum. They may take challenge or proficiency examinations whenever these are appropriate and available. RN’s who have completed two quarters of general chemistry with a grade of C or better in each course have satisfied the chemistry requirement if these courses were taken within ten years prior to their association with the college.

(9) Registered nurses must be within 18 hours of completing lower-division requirements before they may enroll in Nursing 2810. Nursing 2810 must be successfully completed prior to taking or challenging any other nursing courses. The following nursing courses must be successfully completed by all RN’s: 2810, 3230-40-60, 4440-4660, 4760, 4860. Nursing 3110, 4110 and 4230 may be challenged.

** COURSE LOAD **

The maximum credit hours per quarter allowed for any student without special permission is 18.

** BACHELOR OF SCIENCE IN NURSING CURRICULUM **

The following curriculum leads to the Bachelor of Science in Nursing degree. A minimum of 189 quarter hours of credit is required.

** FOR NON NURSES **

<table>
<thead>
<tr>
<th>** Lower Division **</th>
<th>** Credit **</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>12</td>
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<td>Mathematics</td>
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<td>Microbiology (laboratory required)</td>
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Nursing 2800

1Electives 16-14

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<tbody>
<tr>
<td>Nursing 3010 (8), 3110 (4), 3410 (4), 3210-20 (18), 4110 (10), 4230 (10), 4440 (3), 4510-20 (8), 4860 (3), 4760 (6), 4860 (3)</td>
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<td>3-4</td>
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<tr>
<td>Medical Ethics</td>
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</table>

94

14 hours of the total elective requirement must be humanities courses.

** FOR REGISTERED NURSES **

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70-76

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<td>Statistics</td>
<td>3-4</td>
</tr>
<tr>
<td>Medical Ethics</td>
<td>3</td>
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</tbody>
</table>

Nursing 2810 (4), 3230-40-60 (14) or 3210-20 (18), 3110 (4), 3770 (4), 4110 (10), 4230 (10), 4440 (3), 4510-20 (6), 4660 (3), 4760 (6), 4860 (3).

67-71

Electives including 14 hours in humanities courses, to total 189 quarter hours.

** May be challenged. **

Registered nurses who have completed Chemistry 1410-20 prior to admission to the college have satisfied the chemistry requirement. All other RN’s must complete the 12 hour sequence.

NURSING 2810 is prerequisite to all other nursing courses.

** NURSING (720) **

** Professors: **

S. E. Hart (Dean), Ph.D. New York; D. H. Goodefellow, Ph.D. Peabody; M. E. Grover, Ph.D. Illinois; J. N. Mozingo, Ph.D. Walden.

** Assistant Professors: **

J. A. Greene, Ph.D. Vanderbilt; B. M. Reid, Ph.D. Texas.

** Associate Professors: **

M. T. Boynton, M.S.N. Emory; K. P. Conion, M.S.N.; SUNY (Buffalo); M. Davis, Ph.D. Tennessee; M. M. Donnellan, M.S.N. SUNY (Buffalo); P. G. Droppelman, Ph.D. Tennessee; G. A. Evans, M.S.N. Tennessee; M. F. Fenske, M.F. Florida; L. Harrison, Ph.D. Tennessee; S. M. Hodson, M.S. Tennessee; M. L. Jolly, M.S.N. Columbia; D. R. Mazy, M.S.N. Vanderbilt; S. L. McGuire, M.P.H. Michigan; K. B. Nelson, Ph.D. Peabody; H. E. Overton, M.P.H. Tennessee; R. R. Patton, M.S.N., Utah; M. A. Pierce, M.S.N. Tennessee; V. M. Redford, M.S. Colorado; J. R. Rice, M. N. Emory; M. T. Sharp, Ed.D. Tennessee; D. H. Shoffner, M.S.N. Tennessee; P. L. Smith, M.S.N. Medical College of Georgia; M. S. Theodoropolous, M.S.N. Boston; S. P. Thomas, Ph.D. Tennessee.

** Instructors: **

S. M. Bowen, M.S. Tennessee; J. H. Brown, M.S.N. Tennessee; C. Goforth, M.S.N. Vanderbilt; S. M. Helton, M.S.N. Texas Woman’s; L. C. Lindsay, M.P.H. Tennessee; J. M. Faye, M.N. Emory; E. R. White, M.S.N. Oklahoma.

** Lecturer: **

D. B. Stephens, M.S. Tennessee.

** GRADUATE **

General requirements for the Master of Science in Nursing degree are given in the Graduate Catalog. The following courses are open only to MSN degree candidates who have not completed an undergraduate major in nursing: 2410, 4200-10, 4260, 4280 and 4450.

2410 Integrated Biomedical and Health Science (1-5) Examination and application of selected theories from physics, cellular biochemistry, genetics, microbiology and nutrition to the nursing process. Five modules each carry one credit. Prereq: One year of biology or chemistry and consent of instructor. E. R. White, M.S.N. Oklahoma.

2800 Introduction to Clinical Nursing (4) Theory and laboratory activities for development of cognitive and psychomotor nursing skills; emphasis on determinants of health, nurse-client interactions, and nursing assessment in non-acute health care settings. Three hours of lecture and two hours and 1 lab. Prereq: All lower-division requirements and selection for progression to upper division; coreq: Biology 3110, Nutrition 3020, and Microbiology 2910-19. S, SU.

2810 Transition to Professional Nursing (4) Review of current status of profession; analysis of nursing
process as applied to a shifting health care delivery system. The biopsychosocial approach of professional nursing and of the conceptual framework of the baccalaureate program. 3 lectures, 1 lab. Prereq: RN status or consent of instructor. F.

3110 Pharmacology (4) Biochemical and pharmacological effects of drugs and medications on the human body. Positive and negative pharmacological reactions and interaction effects between and among drugs. Prereq: Chemistry 1510-20-30, Zoology 2920. F.

3170 Wellness and Lifestyle (3) Examines models of wellness; exploration of UTK's philosophy of professional nursing and of the conceptual framework of the baccalaureate program. 3 lectures, 1 lab. Prereq: RN status or consent of instructor. F.

3210 Acute Care Nursing I (6) Content and clinical laboratory experience related to the care of patients whose health problems require hospitalization. Physiological and behavioral deviations which underlie or are associated with more complex and critical illnesses. Laboratory experiences provide opportunities to apply increasing knowledge and skill to care of acutely ill patients as well as to provision of continuity of care for those patients and their families. F, W.

3220 Acute Care Nursing II (16) Analysis of physiological and behavioral deviations which underlie or are associated with more complex and critical illnesses. Laboratory experiences provide opportunities to apply increasing knowledge and skill to care of acutely ill patients as well as to provision of continuity of care for those patients and their families. 5 hours, 3 labs. Prereq: 3110, 3110, 3410 or 4200. W.

3240 Acute Care Nursing Theory I (6) Nursing principles, theories, and concepts required to care for acutely ill, hospitalized adults and children. Prereq: 3210. For RN's only. S.

3240 Acute Care Nursing Theory II (6) Continuation of 3230 with emphasis on acute illness episodes that are life-threatening. Prereq: 3230. For RN's only. S.

3260 Clinical Practice in Acute Care Nursing (3) Application of nursing theory, principles and concepts to care of hospitalized children and adults. 3 lab. Prereq: 3230. For RN's only.

3750 Health Promotion Through the Life Cycle (3) Phenomenology of wellness and illness and introduction to factors which promote wellness and prevent illness at all stages of the life cycle. Introduction to use of nursing process to facilitate wellness in clients of every age. Coreq: 3110 or permission of instructor.

3770 Comprehensive Health Assessment (4) Principles and theories underlying health screening of children and adults, including health history, interviewing, and physical examination. Practicum included. 3 hours and 1 lab. (4 hours each). Prereq: All 3000-level nursing courses or their equivalent or consent of instructor. E.

3900 Clinical Practice Elective (1-3) Supervised clinical practicum in acute care settings; further development of clinical practice skills is emphasized. Prereq: 3220. S/JNC only. SU.

3910 Computers and Nursing Care (3) Basic concepts of computerized information processing with application to patient care, health care administration, nursing education, and research. 2 lecs., 1 lab. Prereq: 16 hrs. of 3000-level nursing courses or consent of instructor.

4010 Physiological Principles Applied to Health Sciences (4) Application of selected physiological principles to needs of patients in health and illness. Prereq: RN status or consent of instructor. Not for credit for students who have taken 3210 and/or 3220. E.

4110 Family Health Nursing (10) Nursing needs of families in health and crisis. Emphasis on provision of comprehensive care to families in the child bearing and child rearing phases of family development. Application of theories of human growth and development, family dynamics, and crisis intervention. Laboratory experience to develop skills necessary to provide quality nursing care to families experiencing normal pregnancy, childbirth, and postpartum health problems as well as complications of childbirth, congenital anomalies, and other high-risk birth, disturbed parent-child relationships, and gynecologic disturbances. 5 hrs., 5 labs. Prereq: All 3000-level nursing courses or their equivalent. For nursing majors only. F, W.

4200-10 Integrated Psychosocial and Developmental Theories I, II (2,2) Examination and application of selected behavioral theories as applied to the nursing process. 4200 is a prerequisite to 4210. Open only to MSN candidates. Laboratory experiences are provided, and faculty will facilitate the process of lifestyle change during this course. Open to undergraduate students in all colleges.

4230 Psychosocial and Long-Term Nursing (16) Nursing needs of the geriatric patient. Problems of elderly patients are of a developmental, behavioral, or long-term nature. Equal emphasis on prevention, health promotion, and rehabilitation. Laboratory experiences in a variety of settings. 6 hours, 4 labs. Prereq: All required 3000-level nursing courses or their equivalent. For nursing majors only. F, W.

4260 Community Mental Health Nursing (6) Principles and concepts of mental health and illness, chronicity, aging, and rehabilitation and their application to nursing practice in a variety of settings. Prereq: All required 3000-level nursing courses. For MSN candidates without a BSN degree.

4280 Nursing the Child-Bearing Family (6) Theories and principles of family development, family dynamics, child bearing, and child rearing and their application to nursing practice in hospital and community settings. 3 lecs., 3 lab. Prereq: All required 3000-level nursing courses. For MSN candidates without a BSN degree.

4300 Oncology Nursing (3) In-depth exploration of the cancer problem; medical and nursing intervention. Relates cellular kinetics to theories of carcinogenesis and metastasis, and examines treatment modalities and nursing intervention employed in all phases of the disease. Interdisciplinary approach analyzed. Prereq: Nursing 4320, RN status or consent of instructor.

4400 Scientific Inquiry in Nursing (3) Introduction to language of research, types of research design, meth- odological approaches, sampling, data analysis, and significance of findings. Evaluation of existing and ongoing nursing research studies. Prereq: Senior standing or MSN candidate. F, W.

4450 Nursing and Chronic Illness (4) Theories and principles of gerontology, chronicity and rehabilita- tion, insipid salts for self-reporting and long-term health problems in a variety of clinical and community settings. 2 lectures, 2 labs. Prereq: All required 3000-level nursing courses. For MSN candidates without a BSN degree. F.

4510 Community Health Nursing: Family (3) Application of the nursing process to care of patients and their families in the home setting; utilization of community health services in planning comprehensive goal-directed care; principles related to prevention and control of some communicable diseases are presented. 1.5 hrs. and 1.5 lab. Prereq: All 3000-level nursing courses. Prereq, or coreq: 4110 or 4280. For nursing majors only. F, W.

4520 Community Health Nursing: Aggregates (3) Community studies utilizing the epidemiological approach for comprehensive assessment of and intervention for aggregates at high risk for maturational or situational health and nursing problems; political and legislative community health issues are explored. 1.5 hrs. and 1.5 lab. Prereq: All 3000-level nursing courses. Prereq, or coreq: 4230 or 4280. For nursing majors only. F, W.

4660 Professional Nursing Seminar (3) Critical examination of legislative, legal, ethical, social, and educational issues and trends which have immediate or long range implications for professional practice. Prereq: 10 hours of 4000-level nursing courses. For nursing majors only. S.

4760 Nursing Management (6) Theory and practice of management principles with application to nursing care of groups of patients/clients: organization, planning, decision making and leadership are emphasized; nursing staff qualifications, staff utilization and nursing unit organization are studied and evaluated; entry-level nursing management roles are practiced clinically. 3 hrs. and 3 lab. Prereq: 10 hours of 4000-level nursing courses. For nursing majors only. S.

4790 Health Assessment Practicum (1-3) Selected clinical experiences in health assessment based on individual student needs and interests. Prereq: 4770 or equivalent and permission of instructor. E.

4800 Independent Study in Nursing (3) In-depth study of some aspect of nursing in which student has developed special interest. Study is pursued independently utilizing guidelines developed by the student with appropriate faculty guidance, supervision, and evaluation. May be repeated with consent of instructor. Maximum credit 9 hours. Prereq: 10 hours of 4000-level nursing courses. For nursing majors only. S.

GRADUATE Consult the Graduate Catalog for listing of graduate level courses.
Independent Departments

Department of Air Force Aerospace Studies

**Air Force ROTC Program**

Professor of Air Force Aerospace Studies: Colonel R. E. Culton (Head), M.A. Arizona, M.S. Troy State.

Assistant Professors: Major T. M. Bante, M.A. Webster College; Captain M. K. Chaney, M.A. Webster College; Major R. A. Hooper, M.S.A. George Washington University.

**PURPOSE**

The Air Force Reserve Officers Training Corps (AFROTC) is an educational program designed to provide the college student an opportunity to earn an Air Force commission as a second lieutenant while completing the University requirements for a bachelor's degree. The program provides education that will develop the skills and attitudes vital to the professional Air Force officer. Upon successful completion of the program and graduation from the University, students are commissioned as second lieutenants and they enter active duty.

**THE PROGRAMS**

The Four-Year Program: Students entering the Four-Year Program may register for the program at the same time and in the same manner as they enroll in their other college courses and there is NO MILITARY OBLIGATION. During their freshman and sophomore years, students enroll in the General Military Course (GMC). They then may compete for entry into the Professional Officer Course (POC) which is normally taken during the last two years of college. Selection into the POC is highly competitive and is based on qualification on an Air Force medical examination, scores achieved on the Scholastic Aptitude Test (SAT) or American College Test (ACT), and motivation of other cadets. Upon successful completion of a four-week field training course at an Air Force base, and the recommendation of the Professor of Aerospace Studies, the candidate must agree to take and successfully complete a course in mathematical reasoning or its equivalent before graduation and commissioning.

Since the processing procedure must be completed approximately six months in advance of intended enrollment, interested students must apply early in the academic year preceding the fall term in which they intend to enter the program. Application should be made in person to the Professor of Aerospace Studies.

**WOMEN IN AFROTC**

AFROTC at The University of Tennessee has been coeducational since 1970. Women complete the same courses as men and have the same opportunities. Upon successful completion of the AFROTC program and degree requirements, women are commissioned in the Air Force as second lieutenants. Pay and job opportunities are equal for women and men. Virtually all career fields in the Air Force are open to women, including pilot and navigator positions.

**THE COURSES**

The General Military Course (GMC): This is a two-year course taken during the freshman and sopho- more years with one hour of academic instruction and one hour of Leadership Laboratory a week. The curriculum covers two main themes—the mission and organization of the Air Force, and the development of air power. These courses are open to any student enrolled in the University, and there is no military obligation associated with taking them.

The Professional Officer Course (POC): This is a two-year course of instruction normally taken during the junior and senior years with three hours of academic instruction and one hour of Leadership Laboratory a week. The curriculum covers Air Force management and leadership and American defense policy. Admission is not automatic but is limited to fully qualified students selected by the Air Force ROTC staff.

Leadership Lab: Leadership Lab involves cadet participation in, and cadet direction of, corps leadership activities. It is largely cadet planned and organized in line with the premise that leadership training experiences will improve a cadet's ability to perform as an Air Force Officer. The freshman and sophomore Leadership Lab program involves initial leadership Lab experiences such as: preparing the cadet for individual, squadron, and flight movements in drill and ceremonies; customs and courtesies to include wearing of the uniform and saluting the flag; career opportunities; educational benefits and training problems; environment of the Air Force officer to include the military community, organizations, and functions; and preparation for field training. The junior and senior Leadership Lab program involves the cadets in advanced leadership experiences. The cadets will be responsible to a large degree for planning, organizing, directing, coordinating, and controlling the activities of the cadet corps; for preparing briefings and written communication; and to provide interviews, guidance, information, and other services which will increase the performance and motivation of other cadets.

Field Training: Every AFROTC cadet or applicant is required to attend a summer camp, called field training, normally between the sophomore and junior years. Cadets in the Four-Year Program attend for four
PAY AND ENTITLEMENTS

All cadets enrolled in AFROTC are furnished texts and uniforms. Enrollees are required to deposit $75 as security to the University against loss or damage to the uniforms. The deposit, minus a nominal fee to cover cost of shoes, is returned to the student upon successful completion of AFROTC or upon early withdrawal. Professional Officers receive a subsistence allowance of $100 per month during the academic year. In addition they are paid mileage to and from field training, plus pay commensurate with active duty rates while at field training.

ACTIVE DUTY COMMITMENTS

Commissioned graduates going into non-flying duties will be required to serve four years on active duty. Those graduates going into pilot assignments will be required to serve six years active duty after completion of pilot training. Those graduates going into navigator assignments will be required to serve five years active duty after completion of navigator training.

Curriculum

Air Force Aerospace Studies (094)

1210-20-30 Air Force Aerospace Studies (2,2,2) Surveys the missions, functions, and organization of the Air Force. Emphasis on the Air Force Commands, the environment in which the Air Force operates, and how the Air Force works with the Army and Navy, providing foundation study of the Army, Navy, and the Air Force. In addition the Air Force and the Air Force can build. 1 hour and 1 hour lab (Leadership Laboratory).

2210-20-30 Air Force Aerospace Studies (2,2,2) Introduction to study of air power. Course is developed from a historical perspective starting before the Wright Brothers and continuing into the 1980s. 1 hr. and 1 lab. (Leadership Laboratory).

2240 Field Training (Academic Program) (1-6) Role of United States military forces in the contemporary world, with particular attention to United States Air Force, its organization and mission, various component forces of U.S. military power, organization of America's defense structure, policies of major powers, and elements and processes in making of defense policy. Conducted at Field Training bases throughout the country. Approximately 60 class hours.

3210-20-30 Air Force Aerospace Studies (3,3,3) Air Force leadership at junior officer level, including theoretical, professional, and legal aspects, with attention to communicative skills. Military management functions, principles, and techniques are covered. 3 hours and 1 lab (Leadership Laboratory).

3240 Flight Instruction Program (Private Pilot) (3) Part of Air Force ROTC Flight Instruction Program designed to prepare student to operate safely as a pilot. A secondary objective is to enable a student to pass FAA private pilot's written examination. Thirty quarterly hours of classroom instruction. Subject areas covered are: Pre-flight Facts-acquaints student with an understanding of the fundamentals of pilot training. Meteorology—involves student in learning weather phenomena affecting flight, weather information, and services available to pilots; Flight Computer, Navigation, and Radar Navigation—covers the requirements to plan a cross-country, use of appropriate maps, charts, logs, and regulations that must be known to operate safely and legally. This course is open only to pilot candidates enrolled in the Air Force ROTC Professional Officer Course.

3250 Flight Instruction Ground School (Private Pilot) (3) Part of Air Force ROTC Flight Instruction Program. Covers Federal Aviation Agency (FAA) Instrument Flight Rules, Aircraft Navigation, Meteorology, planning and use of instrument charts for flight, and procedural instruction of instrument flying techniques and applications. Emphasizes safety in operation of small aircraft and provides necessary instruction for the FAA written examination for the instrument pilot's license. Presents 3240 or FAA private license. This course is open only to pilot candidates enrolled in the Air Force ROTC Professional Officer Course.

3255 Commercial Pilot (3) Part of Air Force ROTC Flight Instruction Program. Covers Advanced Flight Techniques, Advanced VFR Navigation and Radio; Commercial Pilot Federal Aviation Regulations and Exams; Alcohol, Drugs, and Flight Physiology. Emphasis is on preparation for Commercial Pilot's License. This course is open only to pilot candidates enrolled in the Air Force ROTC Professional Officer Course.

4210-20-30 Air Force Aerospace Studies (3,3,3) Role and function of Air Force, Reserve, and National Guard; special emphasis on the Air Force; the Air Force is the nation's Air Power. Emphasis on the Air Force's role in national security; and to establish a sound basis for the students' future professional development.
BASIC ACADEMIC REQUIREMENTS FOR APPOINTMENT AS SECOND LIEUTENANT
Academic prerequisites for appointment as Second Lieutenant in the United States Army through the ROTC Program at The University of Tennessee, Knoxville, include the following requirements. The sequence and selection of courses not specified will be determined by the advisor in concert with the head of the Department of Military Science. In cases where a student is pursuing a discipline which is narrowly restricted (excluding Military Science Core Curriculum) with few elective options, any conflict in scheduling or course selection will be resolved in favor of academic degree requirements.

MILITARY SCIENCE CORE CURRICULUM

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<tr>
<th>Program</th>
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<td>MS 1110 Fundamentals of Military Organization</td>
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Substitution All substitutions must receive the prior approval of the Student Academic Advisor and the PMS. (a) MS 2000 Army ROTC Basic Summer Studies may be taken for 6 credits in lieu of MS 1110, 2110, and 2120. (b) History 4370, 4380 may be taken in lieu of MS 1120, 1130, and 2130.

ENROLLMENT AND CONTINUANCE REQUIREMENT

The general requirements for enrollment and continuity in the Army ROTC program are:

1. Basic Military Studies
   a. Be a citizen of the United States.
   b. Be physically qualified.
   c. Freshman and Sophomore standing. Student with higher standing requires consent of instructor.

2. Advanced Military Studies Cadets applying to be in the Advanced ROTC program who seek a Commission must:
   a. Have successfully completed MS 1110, 2110, or 2120 or have accomplished one of the following: Prior Military Service, ROTC Basic Summer Studies, 3-Year High School ROTC Basic Course.
   b. Have two academic years of college remaining (either graduate or undergraduate).
   c. Be enrolled as a full-time student, either at The University of Tennessee or at a nearby institution in a cooperative program.
   d. Maintain military screening and physical requirements.
   e. Maintain a 2.0 G.P.A.
   f. Maintain B average in Military Science Courses as a scholarship student.

3. ROTC Program Specials
   a. The "SMP" option combines the Army ROTC living allowance ($100/mo.) with membership in the Army Reserve or Army National Guard and allows the student to receive pay from both programs. ROTC cadets serve as "officer-trainees" in direct leadership/management positions. SMP cadets participate with the reserve forces is one weekend per month and two weeks each summer.

PAY AND ENTITLEMENTS All students enrolled in the Army ROTC program are furnished texts by the Army through the Military Property Officer. Students enrolled in the ROTC Advanced Course receive uniforms and equipment plus an allowance or $100 per month during the academic year. While attending the ROTC summer studies each cadet receives approximately $650 for Advanced Summer Studies, $490 for Basic Summer Studies, plus meals and clothing are provided.

PLACEMENT CREDIT FOR MILITARY TRAINING
On the basis of previous honorable active military service in any branch of the Armed Services, or participation in a Junior ROTC Program at a Secondary School, a student may request exemption from portions of the Basic Course. Exemption allowed will be determined by the Professor of Military Science.

SPECIAL PROGRAMS

1. ARMY ROTC SCHOLARSHIP PROGRAM
   The Army ROTC scholarship program offers financial assistance to outstanding young men and women in the Army ROTC program who are interested in the Army as a career. Each scholarship provides for free tuition, textbooks subsidy, and laboratory fees in addition to a subsistence allowance of $100 per month for the period that the scholarship is in effect. Scholarships may be awarded for either two, three or four years. High school seniors should contact their guidance counselors early in August or September of their senior year to apply for the four-year scholarship. Two- and three-year scholarship applicants should contact the Professor of Military Science for further information. Certain other privately financed scholarships and grants are available to ROTC cadets.

2. EARLY COMMISSIONING PROGRAM
   By utilization of placement credit for the Basic Military Studies, many cadets enter Advanced Military Studies in either their freshman or sophomore year. The "EGP" enables cadets who complete the ROTC program to be commissioned in a reserve component prior to awarding of a baccalaureate degree. These newly commissioned officers begin their military service in the Army Reserve or Army National Guard while still enrolled in college pursuing a four year degree.

3. SIMULTANEOUS MEMBERSHIP PROGRAM
   The "SMP" option combines the Army ROTC living allowance ($100/mo.) with membership in the Army Reserve or Army National Guard and allows the student to receive pay from both programs. ROTC cadets serve as "officer-trainees" in direct leadership/management positions. SMP cadets participate with the reserve forces is one weekend per month and two weeks each summer.

BRANCH SELECTION
The curriculum of the Army ROTC Program is designed to qualify the cadet for appointment as an officer. Selection to the various branches of the Army is based upon:
1. The personal interests of the cadet;
2. The major course of study;
3. Academic accomplishment;
4. Leadership potential; and
5. The needs of the Service.

Under this system a cadet may be commissioned in any branch for which he or she is qualified and in which a need for officers exists. After graduation and commissioning, the officer will attend a service school for further specialized military training which will qualify him or her for the branch to which he or she is assigned.

EXTRA CURRICULAR ACTIVITIES
Numerous military-related activities are available to cadets throughout the school year. These include the Tennessee Rangers, Rifle Company, UT Color Guard and Sponsor Corps. These organizations provide both student to student contact and a valuable opportunity to acquire military skills. Additionally, each term, a number of Field Training Exercises are conducted allowing such military skills as Small Unit Tactics.

Curriculum

Military Science Studies (688)

1110 Fundamentals of Military Organization (3) The formation and functioning of the American Defense Establishment, customs and traditions of the Army, introduction to the principles of war and current military threat faced by the United States. Practical exercises in military skills of marksmanship and moutaineering. Prereq: Freshman or sophomore standing. Student with higher standing requires consent of instructor.

1120 Historical Evolution of the U.S. Army, 1775-1865 (1) Historical survey of the organization and accomplishments of the US Army. Presents the history of the Army with attention to both peace time and war time achievements as well as discussion of applications and violations of the principles of war. Prereq: 1110, F, W, S.

1130 Historical Evolution of the U.S. Army, 1865-Present (1) Historical survey of the organization and accomplishments of the US Army. Presents the history of the Army with attention to both peace time and war time achievements as well as discussion of applications and violations of the principles of war. Prereq: 1110, F, W, S.

2000 Army ROTC Basic Summer Studies (6) Role of the United States Army as a component of our National Defense system with particular attention on mission, organization, functions of the various branches of the Army, and our national resources. Concentrated study of the techniques of military planning, elements of successful leadership styles, the development of personal and interpersonal skills, the management of organizations and factors affecting human behavior; (44 hours of instruction are presented each week). Conducted at Fort Knox, Kentucky by faculty from colleges and universities participating in the Army ROTC program. This course is taken in lieu of all or part of the Army ROTC Basic Program (MS 1110, MS 2110, MS 2120). Students may not receive more than a total of 9 credit hours for any combination of MS 2000 and MS 1110, MS 2110, or MS 2120. Successful completion of MS 2000 qualifies an individual for admission to the Advanced Military Science Program. SU.

2110 Leadership and Development Techniques (3) A survey of leadership skills and principles with particular attention to communications skills and factors affecting human behavior. Development of leadership qualities through practical exercises requiring...
ing both individual and group participation. Prereq: 1110. Freshman or sophomore standing. Student with higher standing requires consent of instructor. E.

2130 The Art of War (1) A survey of military strategy and principles of war based upon the works of Clausewitz, Sun Tzu, Hart, and Summers. Prereq: 1110. F, W, S.

3110-20-30 Advanced Leadership and Management (4,4,4) Applied leadership to include organization and operation of military units, electronics communication systems and radio/telephone procedures, land navigation, small unit leadership, and tactical concepts of offensive and defensive operations. A quarterly field trip reinforces classroom instruction through practical application. Leadership lab: Tactical and administrative roles in the military unit, physical readiness training, and drill and ceremony. 3110-F, W; 3120-W; 3130-S.

4000 Army ROTC Advanced Summer Studies (6) A six-week field study program conducted at an Army installation in the continental United States. 44 hours of instruction are scheduled each week. A prerequisite to commissioning. Normally scheduled upon completion of 3130. Instruction presented by ROTC faculty from colleges and universities nationwide. Program of study is an extension of leadership and management curricula with emphasis on practical application. Prereq: 3130. SU.

4110 Military Professional Ethics and Leadership (4) Analysis of the military professions characteristics, roles, responsibilities, and ethics; staff operations; military briefings; logistics; personnel evaluation and senior/subordinate relationships are also addressed through practical application. Prereq: 4000 or consent of instructor. F.

4120 Introduction to Military Justice (4) Basic tenets of military law and justice to include the Manual for Courts-Martial, the Uniform Code of Military Justice, disciplinary measures, search and seizure, investigations, administrative proceedings, the Law of Land Warfare, interviews and interrogations, and legal assistance. Leadership Lab: Planning, execution and supervision are stressed through practical application. Prereq: 4110 or consent of instructor. W.

4130 Officership (4) Drafting and reviewing military correspondence, training management, post and installation support, and world power balance are addressed. Leadership Lab: Personnel evaluation, supervision and staff operations are stressed through practical exercise. Prereq: 4120 or consent of instructor. S.
The Institute for Public Service was established in 1971 within the Office of the Vice President for Public Service. The purpose of the Institute is to coordinate and promote public service activities throughout the University system, excluding services provided through the Institute of Agriculture.

The basic goal of the University public service effort is to bring to the citizens of Tennessee—their business, their industry, and their governments—the problem-solving capabilities uniquely embodied within their statewide University system.

Public service at the University of Tennessee includes all services offered to those outside the University, including teaching in certain non-degree situations, technical assistance, and applied research which is conducted specifically at the request and for the benefit of non-University organizations in Tennessee.

The Institute provides: (1) a system-wide focal point for public services; (2) a means to coordinate the various system-level public service activities; and (3) an organizational base for communication and program development that relates to both outside service clientele and the University system.

The County Technical Assistance Service was established by the Board of Trustees at the 1973 mid-year meeting and began operation September 1, 1973. Establishment of the Service was authorized by the 88th General Assembly for the purpose of providing "studies and research in county government, publications, educational conferences and attendance thereat, and to furnish technical, consultative, and field services to counties of the state in problems relating to fiscal administration, accounting, tax assessment and collection, law enforcement, improvements, and public works, and in any and all matters relating to county government. This program shall be carried on in cooperation with and with the advice of counties in the state acting through the Tennessee County Services Association and its Board of Directors, which is recognized as their official agency or instrumentality."

The Service is headquartered in Nashville, with regional offices in Cookeville, Jackson, Johnson City, Martin and Knoxville.
Utility Management Consultants:
A. W. Jordan; E. C. Archer, M.S. Mississippi State; S. L. Rollins, M.S. North Carolina.

The 75th General Assembly (1949) established a Municipal Technical Advisory Service at The University of Tennessee. The legislation designated the purposes to be "studies and research in municipal government, publications, educational conferences and attendance thereof, and furnishing technical, consultative, and field services to municipalities in problems relating to fiscal administration, accounting, tax assessment and collection, law enforcement, improvements and public works, and any and all matters relating to municipal government." Services are currently provided in the fields of municipal law, municipal management, public works, finance and accounting, ordnance codification, municipal information, and intergovernmental relations. Headquarters for the agency is located on the Knoxville campus; regional offices are maintained in Cookeville, Jackson, Johnson City, Martin, and Nashville. This program is carried on in cooperation with the Tennessee Municipal League.

Center for Industrial Services
Executive Director: T. C. Parsons, M.S. Tennessee, P.E., CPA.
Management Consultant: J. E. Ross, M.B.A. Tennessee Technological, P.E.
Research Associate: A. S. Penuel, M.L.S. Peabody.

The Center for Industrial Services has the primary role of assisting Tennessee's manufacturing firms by providing technical and managerial assistance to those companies seeking assistance. By the Tennessee Public Acts of 1963, the assigned objectives for the Center are "to render service to the firm's performance. Field engineers experienced in manufacturing operations take the initiative in encouraging the upgrading and expansion of management in their plant environment.

The Center for Industrial Services is headquartered in Nashville. Regional offices are maintained in Jackson, Johnson City, Martin and Knoxville.

Center for Government Training
Executive Director: G. M. Mabrey, III, M.C.M. East Tennessee State.
Assistant Directors: G. T. Himes, Jr., B.S. Belmont; D. M. Roberts, M.A. Alabama.
Regional Director: D. R. Waynick, B.S. Lambuth
Senior Regional Manager: J. W. Fort, M.A. Austin Peay State.
Regional Manager: C. E. Williams, M.P.H. Tennessee.
Coordinator: M.S. Rigsbee, B.S. Christian Brothers.

The Center for Government Training has responsibility for providing professional assistance and establishing training and career development programs for state and local government officials and employees throughout the state. Headquarters is located in Nashville, but regional offices are also maintained in Jackson and Knoxville. The Center is charged with identifying and analyzing needs for public service education and training at the state and local levels in Tennessee, and with developing and conducting programs for training of public agency employees, working with institutions of higher education in the state and other educational facilities. The Center acts as a clearing house for information relative to public service personnel education and training programs.

Critical Care Education Center
Director: N. J. Shepard, B.S. Middle Tennessee.
Assistant Director: P. P. Vaughan, M.S.N. Vanderbilt.

The Critical Care Education Center, created in 1971 by the Middle Tennessee Hospital Council, became a part of the former UT Nashville campus in 1973. Following the merger of UTN and Tennessee State University in 1979, the Center was moved to the Institute.

The Center provides: (1) a monthly series of one-hour videotape courses used to keep hospital personnel updated on the latest developments in critical care; and (2) a four-week, 140-hour critical care course that provides certification required by the Joint Commission on Accreditation of Hospitals for registered nurses to staff and intensive care units.

Division of Continuing Education
Charles W. Hartsell, Assistant Vice President for Continuing Education, Administration
Raymond A. Shirley, Assistant Vice President for Continuing Education, Media

The Division of Continuing Education is responsible for the development and coordination of all statewide continuing education programs. The Division is concerned with developing (establishing) policy that will extend educational opportunities, including attainment of college degrees, to qualified students of all ages and walks of life who pursue knowledge outside the traditional campus setting. All statewide continuing education programs of the University should be coordinated through the Division.

Information concerning continuing education programs of the various campuses is set forth in the respective catalogs. Information on continuing education programs of The University of Tennessee, Knoxville, is given on page 92 of this catalog.

Center for Extended Learning

CEU Programs:
Continuing Education Units are available for approved non-credit professional programs.
CLEP Open Center: Administers College Level Examination Program tests each month.
College Credit for High School Seniors: Coordinated in cooperation with the State Board of Education.
College Entrance Courses: To remove entrance deficiencies or to complete high school requirements.
Conferences: For specific clientele statewide.
Independent Reading: The student should contact the academic department for the desired reading course and then register for credit through the CEL.
Independent Study: Extends instructional services of the University from all campuses to the citizens of the state. Courses may be started at any time.
Non-Credit Courses and Certificate Programs: In areas of general interest and in technical, business, and professional fields.
Video-tape Programs: Special educational programs on video-tape, both credit and non-credit. Tapes can be purchased or rented.
For information on enrollment, costs, books, and credit, write: Center for Extended Learning, 420 Communications and University Extension Bldg., The University of Tennessee, Knoxville, Tennessee 37996-0300. Telephone: (615) 974-5135.
Radio Services

Director:
R. A. Shirley, M.A. Tennessee.

Associate Directors:
J. A. Chasteen; S. D. Williamson, Jr., M.S. Tennessee;
N. L. Dryer, B.M. Indiana.

Assistant Director:
J. C. Adkins, M.S. Tennessee.

Staff:
D. Burris; P. Doyle, M.S. Tennessee; A. R. Ellstrom, M.Ed. Indiana; R. J. England; M. Kiser,
B.S. Tennessee; D. T. Berry, M. M. Michigan.

Radio Services provides local, regional, and statewide services in radio broadcasting and audio production. It directs the operation of WUOT, the University's 100,000-watt stereo FM station in Knoxville and WUTC, the University's 50,000-watt FM station in Chattanooga. These stations operate 24 hours a day with varied programs of music, news, public affairs, discussion, drama and documentaries from local, state, national and international sources. The stations are members of the National Public Radio Network.

The department produces, duplicates and distributes informational and educational radio programs for broadcast on an audio tape network of 168 Tennessee radio stations. Program content and participants represent a wide range of subjects of public interest. The programs fall into three categories: agricultural and home-making information; current affairs; and cultural enrichment. The stations donate over 22,000 quarter-hours of broadcast time to the University each year. Its close contact with all types of broadcasting and its staff and facilities equip the department ideally for work with UT campuses in the production, duplication, and distribution of audio materials for educational use. It will upon request assist all UT campuses in communications development.

The department has a technical service which includes high-speed duplication of reel-to-reel or cassette audio tapes for University departments, recording conferences and workshops, audio production, and consulting work in audio or public radio technology.

Television Services

Director: R. A. Shirley, M.A. Tennessee.

Assistant Director:
D. L. Bower

Chief Engineer:
A. W. Pearson

Assistant Chief Broadcasting Engineer:
M. L. Battershell

Media Production Assistant:
S. C. Moore

Senior Communications and Electronics Technician:
D. J. Hamilton, B.S. Tennessee (Martin)

Producers:

Artists:
Marshall Thurman.

Camera Operator:
F. E. Gilbert

Television services has responsibility for the administration, scheduling, production and distribution of credit courses and instructional materials over the campus closed-circuit system. The department helps all interested academic departments utilize the television closed-circuit system for instructional purposes. Some 8000 students are taught one or more resident classes each year by television.

The department also serves as a central television production facility for meeting other University needs. Television programs are produced, edited, and duplicated for open circuit broadcast, cable distribution, and videotape distribution. Production efforts include UT sports events, University news and information, continuing education materials, and graduate and undergraduate credit courses for off-campus students.
The University Library

Donald R. Hunt, Director
Betty G. Bengtson, Associate Director/Technical Services; Marcia J. Myers, Associate Director/Administrative Services; Aubrey H. Mitchell, Associate Director for Collection Development.

Professors:

Associate Professors:

Assistant Professors:

Instructors:

The UTK Library, as the premier library of the state, seeks to acquire and service all necessary recorded information, both print and non-print, that meets the needs of the University's teaching, research, and service programs.

The books, periodicals, non-print and any other materials contained in the four UTK library units are available to all students, faculty and staff of The University of Tennessee, Knoxville. Included among the holdings are 1,483,318 books, 1,539,197 microforms, 6,238 audio tapes, 130,635 slides, 1,716 video tapes, more than 2.5 million manuscripts, and various historical ephemera, maps, and oral history tapes. More than 16,598 periodical and serial titles are received annually.

The library in its four locations is open to all students and faculty, regardless of their fields of study. The James D. Hoskins Library at 1401 West Cumberland is the main library where administrative and technical services offices are located. The dictionary catalog, listing the library holdings for the entire campus, is in Main, as are the general and research collections, comprehensive reference, interlibrary services, documents, newspapers, microforms, computerized information services, and Special Collections, the last a repository of local and regional source materials.

The John C. Hodges Undergraduate Library, now under extensive alteration and expansion, will become the main library when an addition of 250,000 square feet is completed, perhaps by 1987. Library services for the undergraduate are continuing in the heart of campus: Reserve, non-print, and the film office are located in Dunford Hall; UGL administration, circulation, periodicals, reference and systems are in the Humanities and Social Sciences Building.

Other libraries serving specialized areas are Agriculture-Veterinary Medicine in the Veterinary Medicine building and Music in the Music Building.

The libraries are administered by a director, associate directors (for collection development and public, technical, and administrative services) and a number of department heads. Questions and comments are invited in person or through the suggestion boxes located in each library.

Continuing evaluation and building of the collections is the responsibility of the collection development librarian. While most materials are selected by faculty, recommendations for purchase are invited from all students and staff.

"Library Guides" are available in all library units, describing library services and facilities.
Computing Center

Gordon R. Sherman, Director
Asa O. Bishop, Jr., Associate Director
Dan R. Wilson, Associate Director
Michael L. Newman, Associate Director
Timothy P. MacKenzie, Assistant Director

Faculty Associates
Professors: G. R. Sherman (Director), Ph.D. Purdue; A. O. Bishop, Jr., Ph.D. Clemson; R. E. Cline, Ph.D. Purdue.
Assistant Professor: D. W. Straight, Ph.D. Texas.

The University of Tennessee Computing Center (UTCC) provides computing facilities and services for the University's teaching, research, public service, and administrative activities. UTCC offices and principal computing facilities are located on the first two floors of the Stokely Management Center (SMC) and on the P2 level and first floor of Andy Holt Tower.

Located at SMC are an IBM 3081-D, an IBM 4341/2, a DECsystem-10 with dual KL10 processors in a symmetrical multiprocessor (SMP) configuration, a DEC VAX-11/785, and a DEC PDP 11/55 which supports WIDJET job submission and retrieval system. The installation of a second DEC VAX-11/785 is planned during 1985. A CalComp 1051 plotter is used to produce graphics output from jobs run on the IBM and DEC computers.

The IBM 3081-D has 16 million bytes of memory, the IBM 4341/2 has 8 million bytes of memory, and the DECSystem-10 has 1.25 million words of memory. The IBM 3081-D runs under MVS with JES2. The DECsystem-10 runs under TOPS-10 and the VAX-11/785 runs VMS. Time-sharing features, in addition to the DECsystem-10 and the VAX-aa/785, include VM/CMS on the IBM 4341/2 and Coursewriter III on the IBM 3081-D.

Software includes most of the commonly used compilers and interpreters, as well as a large number of programs for statistical, mathematical, engineering, operations research, and graphics applications.

Located in Andy Holt Tower is an IBM 360/40, operating under DOS with POWER II, which is used exclusively for administrative work. Data entry services are provided with two Nixdorf 600/55 key-to-disk systems are also located in Andy Holt Tower. An IBM 6670 laser printer is used to produce high quality printed output.

UTCC maintains eight remote job entry stations for batch work and fifteen sites for interactive computing work on the Knoxville campus and supplies computing services to the other campuses in the UT System through remote job entry facilities.

A graphics center with ten Tektronix graphics terminals, five storage and five refresh; two digitizing tablets, and a graphics plotter is located in Ferris Hall. Additional graphics equipment, including three terminals, a large digitizing tablet, and a plotter, is located in the user work area in the Art and Architecture Building.

UTCC publishes the IBM User's Guide, which describes the use of the IBM computers, and the DECsystem-10 User's Guide, which describes the use of the DECsystem-10. Both guides are available at the UT Book & Supply Store. A monthly UTCC Newsletter announces systems, equipment, and procedural changes and contains other items of interest to users. Program write-ups and special user's guides are also available.

UTCC periodically offers intensive training seminars on the utilization of the IBM and DEC computers for faculty, staff and graduate students. UTCC also offers non-credit short courses each quarter in topics such as programming languages and special purpose programs. These courses are announced in the UTCC Newsletter the Campus Capsule section of the UT Daily Beacon, and this week on campus, a publication announcing campus events.

Forms to request computing services are available from the receptionist, 200 Stokely Management Center. All users of UTCC facilities are assigned a consultant for assistance in the effective use of computing resources.

Through the UTCC computers, the University of Tennessee is affiliated with EDUNET and BITNET, two communication networks of colleges and universities. EDUNET is an international computing network, primarily for researchers in higher education, which permits users to open accounts and use computing facilities at any of nineteen universities which supply software to the network. Available resources include a number of computer assisted instruction (CAI) packages, electronic mail services, and special purpose programs in many fields of study. BITNET, a network of over 200 computers located at educational and research institutions throughout the United States, Canada, and Europe, allows members to send electronic messages or files to one another quickly and cost effectively.
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