

College of Liberal Arts

UNIVERSITY OF MINNESOTA

1992-94 Bulletin
Supplement

Fall
1993



On the cover: Lee Ann Thommes is a graduate student majoring in cello performance in the School of Music. Photo by Tom Foley.

**COLLEGE OF LIBERAL ARTS
BULLETIN SUPPLEMENT
UNIVERSITY OF MINNESOTA
FALL 1993**

This is a supplement to the 1992-94 *CLA Bulletin*.

New Courses.....	2
Changes and Additions in Majors and Minors.....	21
“Non-CLA” Courses Allowed.....	23
Bulletin Changes.....	24
General Education Requirements: Groups A-D.....	25
World Studies Requirement.....	29
Cultural Pluralism Requirement.....	30
Second Language Graduation Requirement.....	31
Course Title Changes.....	31
Course Number and Designator Changes.....	34

Changes in course prerequisites and credits are described in the *Class Schedule*. Students with questions about the material in the supplement should call or visit the appropriate department office.

Prepared by the CLA Editor's Office, College of Liberal Arts, University of Minnesota, 225 Johnston Hall, 101 Pleasant St. S.E., Minneapolis, MN 55455 (624-2848).

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The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

NEW COURSES

These new courses have been approved since the publication of the 1992-94 *CLA Bulletin* and will be taught at a future time. Not all courses will be available beginning fall quarter. Check the *Class Schedule* or the department office for the quarter, time, and place new courses will be offered.

ARCHITECTURE (Arch)

1301. INTRODUCTION TO ARCHITECTURAL DRAWING. (4 cr)

A beginning drawing course that emphasizes visualization and drawing of form and space in the physical environment. Exploration of basic elements of form using design drawing systems and conventions. Development of skills in visual literacy and expression through drawing.

3311. DRAWING FOR DESIGN. (4 cr; prereq Arch, BED or LA major, Arch/LA 1301, or #)

Exploration of drawing processes as modes of perception, cognition, reflection. Study of representational aspects of drawing systems and conventions. Development of the understanding of space, light, and order.

3411. HISTORY OF ARCHITECTURE TO 1750. (4 cr; §ArH 3411)

Architecture and city planning from antiquity to 1750; major monuments from Western and non-Western cultures.

3412. HISTORY OF ARCHITECTURE SINCE 1750. (4 cr; §ArH 3412)

A history of major monuments, concepts, and theories of urbanism and architecture since 1750.

AREA STUDIES (Area)

3144. SCOPE AND METHODS OF AREA STUDIES. (4 cr; prereq soph; Area Studies major or pre-major, others #)

Introduction to scholarly traditions, research techniques, and theoretical frameworks characterizing interdisciplinary scholarship as it relates to regions of the world defined by geographic, political, cultural, linguistic, and ethnic areas.

3910. TOPICS IN EAST ASIAN STUDIES. (2-4 cr; §EAS 3300; §EAS 3940; prereq varies)

3920. TOPICS IN EUROPEAN STUDIES. (2-4 cr; prereq varies)

3930. TOPICS IN LATIN AMERICAN STUDIES. (2-4 cr; prereq varies)

3940. TOPICS IN MIDDLE EASTERN STUDIES. (2-4 cr; prereq varies)

- 3950. TOPICS IN RUSSIAN AREA STUDIES.** (2-4 cr; prereq varies)
- 3960. TOPICS IN SOUTH ASIAN STUDIES.** (2-4 cr; prereq varies)
- 3970. DIRECTED STUDIES.** (1-15 cr per qtr; prereq #, Δ,)
Guided individual reading or study.
- 3990. DIRECTED RESEARCH.** (1-15 cr per qtr; prereq #, Δ,)
Qualified students work on a tutorial basis.
- 5504. SENIOR PROJECT.** (4 cr; prereq sr or #)
Research methods, writing skills, and bibliography related to field of study.
- 5504H. SENIOR PROJECT.** (4 cr; prereq sr or #)
Research methods, writing skills, and bibliography related to field of study.
- 5910. TOPICS IN EAST ASIAN STUDIES.** (2-4 cr; prereq varies)
- 5920. TOPICS IN EUROPEAN STUDIES.** (2-4 cr; prereq varies)
- 5930. TOPICS IN LATIN AMERICAN STUDIES.** (2-4 cr; prereq varies)
- 5940. TOPICS IN MIDDLE EASTERN STUDIES.** (2-4 cr; prereq varies)
- 5950. TOPICS IN RUSSIAN AREA STUDIES.** (2-4 cr; prereq varies)
- 5960. TOPICS IN SOUTH ASIAN STUDIES.** (2-4 cr; prereq varies)
- 5970. DIRECTED STUDIES.** (1-15 cr per qtr; prereq #, Δ,)
Qualified students work on a tutorial basis.
- 5990. DIRECTED RESEARCH.** (1-15 cr per qtr; prereq #, Δ,)
Qualified students work on a tutorial basis.

ART (Art)

- 3160. DRAWING AND ELECTRONIC MEDIA.** (4 cr, max 12 cr; prereq 1602 or equiv, 4 cr of 3110 or #)
Expands traditional drawing methods and materials with the use of electronic technology. Access to computers, a scanner, and a color copier to aid in image making.
- 5160. DRAWING AND ELECTRONIC MEDIA.** (4 cr, max 12 cr; prereq 3160 or #)
For description see 3160.

ART HISTORY (ArtH)

3411. HISTORY OF ARCHITECTURE TO 1750. (4 cr; §Arch 3411)

For description, see Arch 3411.

3412. HISTORY OF ARCHITECTURE SINCE 1750. (4 cr; §Arch 3412)

For description, see Arch 3412.

ASTRONOMY(Ast)

1031. EXPLORING THE UNIVERSE. (4 cr)

The human place in the universe. Earth as a planet, other planets, the sun, stars, and galaxies. Fragility of life on the Earth. Scale, origin, and history of the universe and our relationship to it.

BIOCHEMISTRY (BioC)

1401. ELEMENTARY BIOCHEMISTRY. (4 cr; §3001, §Chem 1002; prereq Chem 1001 or one qtr of college chem)

Elementary survey of biochemistry, beginning with brief introduction to organic chemistry. For students who need a general, non-intensive knowledge of biochemistry.

5331. STRUCTURE, CATALYSIS, AND METABOLISM IN BIOLOGICAL SYSTEMS. (4 cr; prereq 2 qtrs organic chem and Biol 1202 or #)

Structure and function of biological molecules. Emphasizes protein structure, catalysis, and intermediary metabolism. Enzyme kinetics, thermodynamics, and the role of cofactors in catalysis.

5332. ENERGY AND SIGNAL TRANSDUCTION IN BIOLOGICAL SYSTEMS. (4 cr; prereq 5331 or #)

Biological membrane structure and membrane-associated proteins emphasized. Transport, oxidation/reduction photosynthesis and electron transfer mechanism in detail. Membrane receptors, signal transduction and specific regulatory systems also covered.

5333. MOLECULAR MECHANISM OF GENE ACTION. (4 cr; prereq 5332 or #)

Mechanisms of gene action. Structure and function of nucleic acids and the regulatory process involved in gene expression emphasized.

BIOLOGY (Biol)

1201. EVOLUTIONARY AND ECOLOGICAL PERSPECTIVES. (5 cr.)

Origins, foundations of modern evolutionary thought, application of theory. Can be taken as a single course or as the first in the Biol 1201, 1202, 1203 sequence.

1202. MOLECULAR AND CELLULAR PERSPECTIVES. (5 cr; prereq 1201 and 1 qtr college chemistry)

Chemistry of living things, cell structure and transport, energy processing in cells, introduction to primary metabolism, molecular genetics, cell physiology, and regulation of development. To be taken as the second course in the Biol 1201, 1202, 1203 sequence.

1806. ZOOLOGY. (5 cr; prereq 1009; §1106)

Survey of animal phyla; structure, function, behavior, adaptation, and evolutionary relationships. Includes lab.

3003. INTRODUCTION TO COMPUTING IN BIOLOGY. (2 cr; prereq Biol 1008 or 1009 or equiv; declared bioscience major)

Hands-on use of microcomputers to introduce students in biology to how computers can help them manipulate data, prepare graphs and graphics, perform literature searches, prepare posters and reports, and communicate through the computer network.

5825. RECOMBINANT DNA LABORATORY. (5; §5125; §MicB 5125; application necessary. Δ)

Introduction to basic recombinant DNA techniques. Methods for growing, isolating, and purifying recombinant DNAs and cloning vectors.

CHEMISTRY (Chem)

5331. ADVANCED ORGANIC CHEMISTRY I. (4 cr; §8331, prereq 3309 and #)

Advanced organic chemistry. Depending on year and instructor, will emphasize heterocyclic chemistry, natural products chemistry, organic electrochemistry, synthetic applications or organometallic chemistry, solid-state chemistry, polymer chemistry and/or stereochemistry.

5332. ADVANCED ORGANIC CHEMISTRY II. (4 cr; §8332; prereq 3303 and #)

For description, see 5331.

CHICANO STUDIES (Chic)

5901. CHICANO STUDIES: THEORY AND METHODOLOGY. (4 cr; prereq grad, sr or #)

Theory and methodology of chicano studies scholarship in social science and humanities.

CHILD PSYCHOLOGY (CPsy)

5353. DEVELOPMENT DURING SCHOOL YEARS. (4 cr; prereq 4 cr psychology)

Principles of psychological development, emphasizing ages 5-18. Theory and

research from developmental psychology relevant to individual growth and achievement; issues in applying a developmental perspective to topics in child and adolescent development (e.g., fostering learning, risk for school failure, behavior and emotional problems, diversity).

CHINESE (Chn)

1201. HERITAGE OF CHINA: EARLY PERIOD. (4 cr, § Hum 1201)

Chinese culture from beginnings through 10th century; literature, philosophy, history, visual arts, and music. Confucianism, Taoism, and Buddhism. Primary texts read in translation.

3266. CHINESE AND AMERICAN CROSS-CULTURAL REPRESENTATION. (4 cr)

Chinese representations of the U.S. and American representations of China in essays, travel memoirs, fiction, and poetry.

COMMUNICATION DISORDERS (CDis)

5103. COMMUNICATION DISORDERS AND CULTURAL DIVERSITY. (4 cr)

The influence of culture on communication disorders and the role of the speech-language clinician in serving diverse populations.

COMPUTER SCIENCE (CSci)

1001. INTRODUCTION TO COMPUTERS FOR NON-COMPUTER SCIENCE MAJORS. (4 cr)

Historical and societal impact of computers; legal and ethical issues in computer usage; basic computer organization; concept of an algorithm; flowcharting. Hands-on experience with packages ranging from editing and word processing to symbolic mathematics.

CULTURAL STUDIES AND COMPARATIVE LITERATURE (CSCL)

3910. TOPICS IN CULTURAL STUDIES AND COMPARATIVE LITERATURE. (4 cr; prereq jr, sr, #)

Topics specified in *Class Schedule*.

3944. HONORS THESIS. (4 cr; prereq sr, candidate for *magna* or *summa* honors in CSCL, Δ)

3970. DIRECTED STUDIES. (Cr ar) Guided individual reading or study.

3970H. DIRECTED STUDIES: HONORS. (Cr ar) Guided individual readings or study.

5910. TOPICS IN CULTURAL STUDIES AND COMPARATIVE LITERATURE. (4 cr; prereq jr, sr, grad, #)

Topics specified in *Class Schedule*.

5910H. TOPICS IN CULTURAL STUDIES AND COMPARATIVE LITERATURE. (4 cr; prereq jr, sr, grad, #)

Topics specified in *Class Schedule*.

5970. DIRECTED STUDIES. (Cr arranged; prereq jr, sr, grad, #)

Guided individual reading or study.

5970H. DIRECTED STUDIES: HONORS. (Cr arranged; prereq jr, sr, grad, #)

Guided individual reading or study.

5990. SENIOR WORKSHOP. (4 cr; prereq sr or jr major with Δ)

Student-defined, faculty-assisted research project devoted to the comparative, socio-historical analysis of discursive practices.

ECOLOGY, EVOLUTION, AND BEHAVIOR (EEB)

5064. THE PROCESS OF EVOLUTION. (4 cr; prereq Biol 5041 or 5841 or #)

Introduction to the mechanistic bases of evolution, including the causes and consequences of natural selection, the stochastic consequences of Mendelian segregation, and their combined influences on the structure of natural and captive populations. Lab exercises based on the "Populus" computer simulation software.

5324. EVOLUTION OF PRIMATE SOCIAL BEHAVIOR. (3 cr; prereq 3111 or #)

Ecological factors that influence variation in the demography, social structure, and social behavior of non-human primates. Application of current evolutionary theory (i.e., kin selection, reciprocity) to the understanding of social behavior.

ENGLISH (Engl)

3111, 3112, 3113. SURVEY OF ENGLISH LITERATURE. (4 cr per qtr)

Historical survey of major figures, movements, and trends in English literature. *3111*: Chaucer to Marvell, including Spenser, Shakespeare, and Donne. *3112*: Milton to Johnson, including Dryden, Swift, and Pope. *3113*: Blake to Yeats, including Wordsworth, Coleridge, Keats, Tennyson, and Browning.

ENGLISH AND CENTER FOR INTERDISCIPLINARY STUDIES OF WRITING (EngW)

- 5501. MINNESOTA WRITING PROJECT INSTITUTE.** (4 cr; prereq nomination and competitive selection by writing project board; summer only)
Workshop for selectively chosen teachers of writing (K-college). Participants reflect on their own writing processes as they produce a series of essays and examine current pedagogical theory and practice.
- 5502. MINNESOTA WRITING PROJECT OPEN INSTITUTE.** (3 cr; prereq 5501, open to teachers eligible for Extension graduate credit; summer only)
Workshop for teachers of writing (K-college). Participants reflect on their own writing processes as they produce a series of essays and examine current pedagogical theory and practice.
- 5570. MINNESOTA WRITING PROJECT: DIRECTED STUDIES.** (1-4 cr)
Workshops on various topics in which teachers of writing investigate current theories of writing and writing pedagogy.

ENGLISH AS A SECOND LANGUAGE (ESL)

- 0238. PRONUNCIATION.** (0 Cr. Open only to non-native speakers. See MN English Center for override.)
Individual attention given to specific areas of spoken language, including pronunciation, enunciation, intonation, and stress.
- 0321. ENGLISH AS A SECOND LANGUAGE: GRAMMAR.** (0 Cr. Open only to non-native speakers. See MN English Center for override.)
Intermediate level. Reviews and adds to student's repertoire of structures, emphasis on meaning, use, and form. Increased emphasis on verb phrase and control of grammar in writing. Some attention to complex sentence patterns.

FOREIGN STUDY (FoSt)

- 0060. STUDY ABROAD.** (0 cr; prereq Δ)
Same as 0010; for a program of more than half-time but less than three-quarter-time study abroad.
- 0120. STUDY ABROAD.** (0 cr; prereq Δ)
Same as 0100; for a program of full-time study abroad.
- 1060/3060. CIEE SUMMER MOSCOW BUSINESS AND SOCIETY PROGRAM.** (1-12 cr; prereq Δ)

Summer program in Moscow, Russia, under auspices of Council on International Educational Exchange. Russian business, society, and language taught in English by Russian faculty under supervision of CIEE resident director. Visits to Russian companies.

1070/3070. CIEE LANGUAGE AND AREA STUDIES PROGRAM IN INDONESIA. (1-27 cr; prereq Δ)

Fall or spring semester at Institut Keguruan Dan Ilmu Pendidikan Malang, Malang, Indonesia, under auspices of Council on International Educational Exchange. Intensive modern Indonesian language plus two area studies courses taught in English by Indonesian or the CIEE resident director.

1080/3080. CIEE LANGUAGE AND AREA STUDIES IN THAILAND. (1-27 cr; prereq Δ)

Fall or spring semester at Khon Kaen University, Khon Kaen, Thailand, under auspices of Council on International Educational Exchange. Intensive Thai language plus one or two area studies courses taught in English by Thai faculty or the CIEE resident director.

1090/3090. CIEE LANGUAGE AND AREA STUDIES PROGRAM IN VIETNAM. (1-27 cr; prereq Δ)

Fall or spring semester at Hanoi University, Hanoi, Vietnam, under auspices of Council on International Educational Exchange. Intensive Vietnamese plus two area studies courses taught in English by Indonesian faculty or the CIEE resident director.

1270/3270. CIC AUSTRALIAN INTERNSHIP PROGRAM. (1-24 cr; prereq Δ)

Australian internship-seminar combinations for variety of majors. Two options: fall or spring semester combining internship/seminar with related courses in an Australian university, or 8- to 12-week fulltime internship/seminar beginning June, August, or February. Internship settings include Parliament, state legislatures, government agencies, businesses, nonprofits.

1390, 3390. IES PROGRAM IN MOSCOW, RUSSIA. (1-54 cr; prereq Δ)

Semester or year at Russian Humanities University, Moscow, through Institute of European Studies. Russian language study; area studies courses taught in Russian or English, depending on student's language level; and, for more advanced students, one regular RHU course.

1760, 3760. CIEE PROGRAM AT FLASCO, BUENOS AIRES, ARGENTINA. (1-54 cr; prereq Δ)

Semester or year in Buenos Aires, Argentina, through Council on International Educational Exchange. Combination of special Latin American studies courses at FLASCO (Facultad Latinoamericana de Ciencias Sociales) and regular courses at Universidad de Buenos Aires. All instruction in Spanish by Argentinian faculty.

1770, 3770. CIEE PROGRAM IN SANTIAGO, CHILE. (1-54 cr; prereq Δ)
Semester or year in regular courses at Universidad de Chile and/or Pontificia Universidad Católica de Chile, Santiago. All instruction in Spanish by Chilean faculty. Intensive instruction study during 3- or 4-week pre-session; opportunity to continue studying Spanish during semester.

1780, 3780. CIEE PROGRAM IN CAMPINAS, BRAZIL. (1-54 cr; prereq Δ)
Semester or year at Universidade Estadual de Campinas, Campinas, Estado Sao Paulo, Brazil, through Council on International Educational Exchange. Students take Portuguese language, Contemporary Brazil, regular university courses. Six-week pre-session of intensive Portuguese. Instruction in Portuguese by Brazilian faculty.

3140. HECUA COMMUNITY INTERNSHIPS IN LATIN AMERICA. (1-24 cr; prereq Δ)
Fall or spring semester in Bogota, Colombia, under auspices of Higher Education Consortium for Urban Affairs. Grassroots community internship plus seminar, Community Participation and Social Change, and either a directed study project or advanced Spanish.

3650. CIEE PARIS INTERNSHIP AND STUDY PROGRAM. (1-24 cr)
Fall or spring semester in Paris, France, under auspices of Council on International Educational Exchange. Classroom language and French area studies courses plus 24- to 28-hour-per-week internship with a French corporation or nonprofit. Students from all disciplines eligible. French fluency required.

FRENCH (Fren)

5703. STRUCTURE OF FRENCH: SYNTAX II. (4 cr; prereq 5702 or #)
Linguistic study of selected aspects of modern French syntax, such as pronouns, relative clauses, interrogatives, reflexive verbs. Some attention to syntactic features of spoken French.

5920. TOPICS IN EARLY FRENCH PROSE (800-1600). (3-5 cr per qtr; prereq Fren 3219 or above)

5930. TOPICS IN EARLY FRENCH POETRY (800-1600). (3-5 cr per qtr; prereq Fren 3219 or above)

5940. TOPICS IN EARLY MODERN FRENCH PROSE (1600-1900). (3-5 cr per qtr; prereq Fren 3219 or above)

5950. TOPICS IN EARLY MODERN FRENCH POETRY (1600-1900). (3-5 cr per qtr; prereq Fren 3219 or above)

5960. TOPICS IN MODERN FRENCH PROSE (1850-PRESENT). (3-5 cr per qtr; prereq Fren 3219 or above)

5970. TOPICS IN MODERN FRENCH POETRY (1850-PRESENT). (3-5 cr per qtr; prereq Fren 3219 or above)

5980. TOPICS IN FRENCH THEATER. (3-5 cr per qtr; prereq Fren 3219 or above)

GEOGRAPHY (Geog)

1402. GEOGRAPHY AND ENVIRONMENTAL SYSTEMS. (5 cr; §1401)

Geographic patterns, dynamics, and interactions of atmospheric, hydrospheric, geomorphic, pedologic, and biologic systems in the context of human population, development, and resource use patterns.

3102. GEOGRAPHIC ISSUES IN THE UNITED STATES AND CANADA. (4 cr; §3101)

Interplay of aspirations and efforts of groups with characteristics of environments to produce regional differences in the U.S. Ways in which regional differences produce unique opportunities and pose unique problems in various parts of the U.S.

5385. POLITICAL ECONOMY OF DEVELOPMENT. (4 cr, prereq grad. sr, or #)

Examine the nature and scope of the world system (capitalism) and its impact on regional development processes. Focus on roles of the two principal actors of development, the state and international financial institutions.

5523. ELEMENTS OF DIGITAL CARTOGRAPHY. (4 cr; prereq 3511 and 3531, or 5522 and one programming language or #)

Fundamental issues of digital cartography. UNIX operating system and programming on workstations. FORTRAN programming and SUNPHIGS. Vector encoding and error. Generalization models and techniques. Geographical data structures. Computational geometry. Cartometric analysis. Computer-generated cartographic symbolization.

5563. ADVANCED GEOGRAPHIC INFORMATION SYSTEMS. (4 cr; prereq Geog 5562/LA 5562 or #)

Advanced concepts and theories in geographic information systems. Sources of geographical data including image processing. Geographic data structures, including hierarchical, relational, quadtree, and vaster methods. Techniques of spatial analysis. Error modeling in geographic data bases. Spatial interpolation and classification. Visualization of GIS processes and spatial modeling.

GEOLOGY AND GEOPHYSICS (Geo)

3201. GEODYNAMICS I: THE SOLID EARTH. (4 cr; prereq Phys 1251, 1252)

Introduction to the dynamics of the solid earth, particularly the tectonic system.

3202. GEODYNAMICS II: THE FLUID EARTH. (4 cr; prereq 3201)
Introduction to the dynamics of the fluid earth, mainly surface processes and convection.

3301. GEOCHEMICAL PRINCIPLES. (4 cr; prereq Chem 1051, 1052)
Introduction to the chemistry of the Earth.

5010. FIELD WORKSHOP. (2 cr; prereq Geo, Geophy, GeoEng major or #)
Geologic or geophysical field study.

5020. LABORATORY WORKSHOP. (2 cr; prereq Geo, Geophys, GeoEng major or #)
Geologic or geophysical laboratory study.

5030. MODELLING WORKSHOP. (2 cr; prereq Geo, Geophys, GeoEng major or #)
Modeling of geologic or geophysical systems.

5101. GEOCHRONOLOGY AND STRATIGRAPHY. (4 cr; prereq 3301.)
Methods for measuring geologic time and dating rocks, both relatively and absolutely.

5543. PALEOMAGNETISM. (4 cr; prereq 1111, Phys 1251, Math 1251, or #)
Physical and chemical basis of paleomagnetism. Origin of natural remanent magnetization and its stability, mineralogy of magnetic minerals, paleomagnetic measurements techniques, statistics of paleomagnetic data, magnetic polarity stratigraphy, apparent polar wander, and environmental magnetism.

5631. EARTH SYSTEM SCIENCE. (4 cr; prereq 3201, 3202, 3301)
Integrated study of global aspects of the oceans, atmospheric, and tectonic systems.

GERMAN (Ger)

3503. CONTEMPORARY AUSTRIA. (4 cr; prereq 1106 or graduation proficiency test)
Culture, politics, society, and economy of Austria since 1945.

HISTORY (Hist)

3626. FRANCE FROM LOUIS XIV THROUGH THE FRENCH REVOLUTION AND THE NAPOLEONIC ERA. (4 cr)
Old Regime France as it disintegrates into revolution and transforms itself through empire and war. Birth of modern France.

3891, 3892. AMERICAN MILITARY HISTORY. (4 cr per qtr; §Mil 3011, 3012)
3891: Impact of geography, politics, society, technology, and leadership in the development of the military from colonial period to Spanish American War.

3892: Impact of geopolitics, technology, society, and leadership in the rise of land, sea, and air forces to global dominance in the 20th century.

5249. THE HISTORY OF POLAND IN THE 19TH AND 20TH CENTURIES.

(4 cr)

Survey of Polish history in the 19th and 20th centuries.

HUMANITIES (Hum)

3001. HUMANITIES IN THE MODERN WEST I. (4 cr; §Rhet 1301; §1001;

prereq jr or sr or #)

Meets with 1001. Additional work for upper-level credit.

3002. HUMANITIES IN THE MODERN WEST II. (4 cr; §Rhet 1302; §1002;

prereq jr or sr or #)

Meets with 1002. Additional work for upper-level credit.

3003. HUMANITIES IN THE MODERN WEST III. (4 cr; §Rhet 1303; §1003;

prereq jr or sr or #)

Meets with 1003. Additional work for upper-level credit.

3004. HUMANITIES IN THE MODERN WEST IV. (4 cr; §Rhet 3381; §1004;

prereq jr or sr or #)

Meets with 1004. Additional work for upper-level credit.

3005. HUMANITIES IN THE MODERN WEST V. (4 cr; §1005; prereq jr or sr

or #)

Meets with 1005. Additional work for upper-level credit.

3027. LYRIC SONG IN MEDIEVAL AND RENAISSANCE CULTURE. (4 cr;

for non-music majors; §Mus3027)

Oral, popular, and courtly song traditions in socio-cultural contexts. Status and roles of women. Analysis and criticism approached from different disciplinary perspectives.

3029. MUSIC IN THE 20TH CENTURY. (4 cr; for non-music majors; §Mus

3029)

Aural perception of modern styles; cultural perspectives through primary source readings.

3111. EUROPEAN HERITAGE: GREECE. (4 cr; §Rhet 3321; §1111; prereq

jr or sr or #)

Meets with 1111. Additional work for upper-level credit.

3113. EUROPEAN HERITAGE: ROME. (4 cr; §Rhet 3322; §1113; prereq

jr or sr or #)

Meets with 1113. Additional work for upper-level credit.

3115. EUROPEAN HERITAGE: MIDDLE AGES. (4 cr; §Rhet 3322; §1115; prereq jr or sr or #)
Meets with 1115. Additional work for upper-level credit.

3117. EUROPEAN HERITAGE: RENAISSANCE, REFORMATION. (4 cr; §Rhet 3323; §1117; prereq jr or sr or #)
Meets with 1117. Additional work for upper-level credit.

3119. EUROPEAN HERITAGE: AGE OF THE BAROQUE. (4 cr; §1119; prereq jr or sr or #)
Meets with 1119. Additional work for upper-level credit.

3281. INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE. (4 cr; §Hist 3281)
Aesthetic, historical, and political thought from Vico to Arnold.

3282. INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE. (4 cr; §Hist 3282)
Marxism and alternative contemporary critics of industrial and national Europe.

3283. INTELLECTUAL AND CULTURAL HISTORY OF MODERN EUROPE. (4 cr; §Hist 3283)
Development of modern historicism and its critics; history and social sciences in the late 19th and 20th centuries.

INTERDEPARTMENTAL STUDY (ID)

3205. COMMUNITY SERVICE AND SOCIAL CHANGE: INTERDISCIPLINARY PERSPECTIVES. (4 cr; prereq meet with OSLO adviser in 220 Johnston Hall before first class meeting to obtain course override and discuss internship possibilities)
Historical, economic, philosophical, anthropological, and social services approaches to community service in cultural context. Participation in one of four community service group projects, classroom lectures, and discussions will enable students to assess community service and the role it plays (or fails to play) in community development and social change.

3334. GOETHE AND NEWTON: STUDY IN SCIENCE/BELIEF. (CEE only)

3925. LIFE/CAREER PLANNING. (2 cr/non-liberal arts credits; prereq CLA jr or sr, others #, non-journalism students should register for Jour 3925)
Assists CLA students in formulating post-graduation plans. Identifying appropriate careers, preparing an effective resume, conducting an active job-search, participating in practice interviews, and coping with transition issues.

JAPANESE (Jpn)

3061. MEDIA JAPANESE. (4 cr; prereq 3033 or #)

Development of comprehension skills in reading and listening to Japanese-language newspapers, journals, and radio and television broadcasts. Vocabulary, grammatical patterns, and kanji unique to the media. Conducted in Japanese.

JOURNALISM. (Jour)

3925. LIFE/CAREER PLANNING. (2 cr/non-liberal arts credits; prereq CLA jr or sr; others #: journalism pre-majors and majors should register for ID 3925. Open to non-Journalism majors; §ID3925)

Assists CLA students in formulating post-graduation plans. Identifying appropriate careers, preparing an effective resume, conducting an active job-search, participating in practice interviews, and coping with transition issues.

LANGUAGE TEACHING TECHNOLOGY (LgTT)

5101. TECHNOLOGY IN THE LANGUAGE CLASSROOM. (2 cr)

Uses of technology in language teaching. Theoretical background, application, and demonstration.

LEARNING AND ACADEMIC SKILLS (LASK)

1301. CAREER PLANNING FOR STUDENTS WITH DISABILITIES. (2 cr/non-liberal arts credits)

Discover your interests, values, needs, and learning style as they relate to occupational choices. Learn decision-making strategies to identify possible career options and how to set realistic goals.

1302. CAREER DEVELOPMENT FOR STUDENTS WITH DISABILITIES. JOBSEEKING/KEEPING SKILL. (2 cr/non-liberal arts credits; prereq 1301 or similar course with #)

Implementing your career decisions by developing skills necessary to conduct a productive job search. Learn to write resumes and cover letters, effectively fill out job application forms, interview techniques, and job search strategies.

1303. CAREER DEVELOPMENT FOR STUDENTS WITH DISABILITIES. INTERNSHIP EXPERIENCE. (2 cr/non-liberal arts credits; prereq 1302 or similar course with #)

Paid or volunteer internships. Work experience, weekly on-campus seminar, on-site and campus supervision. Work experience to enhance employability.

MATHEMATICS (Math)

5531-5532-5533. DYNAMICAL SYSTEMS AND CHAOS. (4 cr per qtr; prereq multivariable calculus and linear algebra, e.g., 1261-3251-3252-3261))

Introduction to dynamical systems theory with emphasis on iteration of

mappings of the line, the circle and the plane. Fixed points, periodic points, stability, bifurcations, invariant Cantor sets, rotation number, Smale horseshoe, fractal dimension, Julia sets, Mandelbrot set, nonlinear oscillations, computer experiments.

MIDDLE EASTERN LANGUAGES AND CULTURES (MELC)

3970. DIRECTED STUDIES. (1-15 cr; prereq #, Δ , \square)

Guided individual reading or study.

3990. DIRECTED RESEARCH. (1-15 cr; prereq#, Δ , . . .)

Qualified students work on a tutorial basis.

5501. MODERN ARABIC POETRY. (4 cr; §MELC 3301, Arab 3301, 5501)

The Free Verse Movement and its major trends: Post-Romantic, Social Realist, Symbolist, Resistance, Prose Poem. Emphasis on leading poets: al-Mala'ika, al-Sayyab, al-Bayati, Andunis, Hawi, al-Khal, al-Fayturi, Abd-al-Sabur, Darwish, Sayigh, Jabra, and al-Maghut. Poems discussed in cultural and historical context. Theoretical and critical essays. All readings in English.

5502. THE ARABIC NOVEL IN TRANSLATION. (4 cr; §MELC 3302, Arab 3302, and Arab 5502)

The novel as a new literary genre in Arabic literature. Trends discussed: Realist, psychological, Existentialist, Feminist, post-Modernist/Fantastic/Experimentalist. Emphasis on major novelists: Mahfouz Ghanem, Salih, Jabra, Kanafani, El Sa'dawi, al-Shaykh, Munif, Habibi, al-Qu'id, al-Ghitany and Khouri. Novels discussed in cultural and historical context. Discursive writing, theoretical and critical essays. All readings in English.

5504. SENIOR PROJECT. (4 cr; sr in department or #, Δ , . . .)

Research methods, writing skills, and bibliography related to field of study.

5504H. SENIOR PROJECT: HONORS. (4 cr; sr in department or #, Δ , . . .)

Research methods, writing skills, and bibliography related to field of study.

MUSIC (Mus)

3700, 5700. AFRICAN MUSIC ENSEMBLE. (1 cr per qtr; prereq #)

Performance of African music repertoire.

**5374. TEXT AND LANGUAGE: A SINGER'S TOOLS FOR
INTERPRETATION.** (2 cr; prereq #)

Specific meanings, properties, and inflections of words as used by singers for artistic interpretation; role of the musical setting in defining meaning. Performance required.

5411, 5412, 5413. INSTRUMENTAL ACCOMPANYING SKILLS AND REPERTOIRE. (2 cr per qtr; prereq accompanying major)

Performance class in accompanying skills particular to orchestral reductions and "non-sonata" instrumental accompanying. Repertoire to include, but not be limited to, classical and romantic string concerti, and "encore" pieces.

5421, 5422, 5423. VOCAL ACCOMPANYING SKILL AND REPERTOIRE. (2 cr per qtr; prereq Italian, German, French diction; accompanying or graduate vocal major)

Performance class in skills of vocal accompanying (*Lieder, melodie, opera*) with emphasis on coaching techniques and performance skills of both pianists and singers.

MUSIC EDUCATION (MuEd)

5667. COMPUTER-BASED MUSIC INSTRUCTION. (2 cr; prereq 5666 or #)
Design, development, and implementation of computer applications for the music classroom emphasizing the HyperCard environment with interactive audio, video, and MIDI.

5668. COMPUTERIZED MUSIC NOTATION. (3 cr)

Fundamentals of music notation and printing utilizing the Macintosh computer, MIDI keyboards, and the Finale software program. Preparation of instrumental and vocal scores, part extraction, and page layout.

PHILOSOPHY (Phil)

1006. PHILOSOPHY AND CULTURAL DIVERSITY. (5 cr; §1002)

Introduction to central problems and methods of philosophy through culturally diverse texts. Focus will be critical and comparative, reflecting a range of U.S. philosophical traditions.

5325. BIOMEDICAL ETHICS. (4 cr; #)

Survey of major topics and issues: patients' rights and duties, informed consent, confidentiality, ethical issues in medical research, initiation and termination of medical treatment, euthanasia, abortion, maternal/fetal conflicts, and allocation of medical resources.

PSYCHOLOGY (Psy)

1011. CAREER DECISION MAKING. (2 cr/non-liberal arts credits; prereq freshman or sophomore; others #)

Identify interests, values, skills, and personality with regard to career options. Individual and group projects on possible vocations. Meetings with instructor augment class sessions.

3666. HUMAN SEXUALITY. (4 cr; prereq 1001)

Overview of theories, research, and contemporary issues in human sexual behavior from an interdisciplinary perspective. Topics include: sexual anatomy and physiology, hormones and sexual differentiation, cross-cultural perspectives on sexual development, social and health issues, and sexual dysfunction and therapy.

5038. INTRODUCTION TO NEURAL NETWORKS. (4 cr; prereq 3061 or 5061, Math 3212, CSci 3104, or #)

Introduction to parallel distributed processing models in neural and cognitive science. Topics include: linear models, Hebbian rules, self-organization, non-linear networks, information optimization, and representation of information. Applications to sensory processing, perception, learning, and memory.

RELIGIOUS STUDIES (RelS)

3414. COMPARATIVE RELIGIONS OF SOUTH ASIA. (4 cr; §SALC 3414, 5414)

Compare and contrast basic philosophical concepts, literatures, ideologies, and ritualistic practices of Hinduism, Buddhism, and Jainism with those of Islam and Sikhism.

3701/5701. SCIENTIFIC STUDY OF RELIGION. (4 cr; prereq jr or sr or #)

Theoretical and empirical issues in studying religious ideologies, institutions, and behaviors with techniques of social sciences.

5414. COMPARATIVE RELIGIONS OF SOUTH ASIA. (4 cr; SALC 3412 or RelS 3413 recommended; §RelS 3414, SALC 3414, SALC 5414)

Compare and contrast basic philosophical concepts, literatures, ideologies, and ritualistic practices of Hinduism, Buddhism, and Jainism with those of Islam and Sikhism.

5521. PHILOSOPHY OF RELIGION. (4 cr. § Phil 5521; prereq 8 cr in Phil)

Grounds and sanctions of religion according to various philosophies.

SOCIOLOGY (Soc)

5109. DOMESTIC CRIMINAL VIOLENCE. (4 cr; prereq 3101-3102 or #)

Research on family violence within a criminological framework. Definition of domestic violence. Empirical and theoretical approaches to the study of domestic violence. Response of social control agencies.

SOUTH ASIAN LANGUAGES AND CULTURES (SALC)

3970. DIRECTED STUDIES. (1-15 cr; prereq #, Δ,)

Guided individual reading or study.

3990. DIRECTED RESEARCH. (1-15 cr; prereq #, Δ, ...))

Qualified students work on a tutorial basis.

5504. SENIOR PROJECT. (4 cr; sr in department or #, Δ, ...)

Research methods, writing skills, and bibliography related to field of study.

5504H. SENIOR PROJECT: HONORS. (4 cr; sr in department or #, Δ, ...)

Research methods, writing skills, and bibliography related to field of study.

SPANISH AND PORTUGUESE (SpPt)

Spanish (Span)

3105. INTRODUCTION TO THE STUDY OF HISPANIC CULTURES. (4 cr; prereq Span 3002, 3004 or #)

Hispanic cultures and societies--explore notion of cultural difference and awareness of cultural affiliation. History, theory of cultural differences, cultural mosaic of Hispanic world. Refine writing/expository skills in Spanish.

3107. INTRODUCTION TO THE STUDY OF HISPANIC LINGUISTICS. (4

cr; prereq Span 3002, 3004 or #)

Introduction to the field of Hispanic linguistics.

3510. TOPICS IN HISPANIC CULTURES. (4 cr; prereq Span 3104 or 3105 or 3107)

Major topics in Hispanic cultures--Iberian peninsula, Latin America (including Brazil), the Caribbean, and Spanish-speaking USA--emphasis on cultural discourses other than literature. Possible topics include religions, folklore, popular culture, film, popular and classical music, oral tradition.

3972. MAJOR SEMINAR. (4 cr; prereq 30 cr Span 3xxx or Span-Port 3xxx)

Survey of topics and methods of research in literature, language, and culture in Spanish and Portuguese.

STATISTICS (Stat)

5091. STATISTICAL METHODS FOR QUALITY IMPROVEMENT. (4 cr; prereq 3012 or 5021 or 3091 or 5122 or 5132, and Math 1252)

Application of statistical concepts of random variability and sampling, statistical process control, Shewhart and accumulative charting, analysis of plant data, applications of trend surface analysis, analysis of variance and design of experiments, quality improvement by reduction of random variability.

THEATRE ARTS AND DANCE (Th)

3712. INTERMEDIATE STAGE DIRECTION. (4 cr; prereq 3711, jr or sr)

Script analysis, rehearsal technique, and actor coaching. Rehearsing and production of scenes.

TRANSLATION, INTRODUCTION TO (TrIn)

3001. INTRODUCTION TO TRANSLATION. (3 cr; prereq bilingual proficiency in English and another language spoken in Minnesota (Hmong, Vietnamese, Spanish, or Russian))

Theory and supervised practice of translation; examination of the process of reexpressing meaning in a second language. Translation of documents concerning public services and health and legal education directed to the general public.

3101. INTRODUCTION TO COMMUNITY INTERPRETING. (3 cr; prereq#: TrIn 3001 recommended; high level of proficiency in spoken English and another language as demonstrated by examination)

Practical and theoretical introduction to interpreting in a variety of community settings, including consecutive interpreting, notetaking strategies, technical vocabulary, professional and ethical conduct, intercultural issues. Self-assessment through audio- and videotaping.

WOMEN'S STUDIES (WoSt)

3308H/5308H. WOMEN WRITERS OF AFRICA AND LATIN AMERICA. (4 cr; prereq 8 cr in WoSt and/or Latin American or African Studies or #)

3309. CONTEMPORARY WOMEN'S SHORT FICTION. (4 cr; prereq introductory work in literature)

Short fiction of contemporary women (written in English or in English translation). Authors such as Atwood, Cisneros, Erdrich, Gordimer, Lessing, Walker. Changing forms of the short story, primarily 20th century; popular "genre" fiction; role of independent presses in broadening literary canon.

5308H. WOMEN WRITERS OF AFRICA AND LATIN AMERICA. (4 cr; prereq 8 cr in WoSt or Latin American or African Studies or #)

For description, see 3309.

CHANGES AND ADDITIONS IN MAJORS AND MINORS

NEW

EUROPEAN AREA STUDIES MAJOR

Area Studies Program, 214 Social Science

Area Studies Programs, within the Institute of International Studies, is offering a new CLA major in European Area Studies beginning fall quarter, 1993. The B.A. degree program allows students to focus their attention on Europe from a multidisciplinary perspective.

Changes on the European continent have been dramatic. Old conceptual frameworks, such as Cold War, East and West, communist versus capitalist, are being reexamined. National borders are in flux. Ethnicity and cultural heritage have reemerged as potent forces in the region.

The European Area Studies program requires breadth courses as well as a concentration in some area or aspect of Europe, for example Central Europe or the European Community. The major is supported by language, methods of inquiry, and general breadth requirements, a minimum of 8 courses (32 credits) of concentration requirements, and the successful completion of a senior project. Study abroad is highly encouraged. The Area Studies adviser will assist students in designing their program. The Advising Office is 232A Social Sciences Building, 624-8543. An Honors option is also available in consultation with a faculty advisory committee and the CLA Honors program.

CHEMISTRY (Chem)—Minor Sequence

Required Preparatory Courses—Chem: 2 lectures and 2 labs in general chemistry (min 8 cr); Phy: 3 lectures and 3 labs of calculus-based physics (min 12 cr); Math: Calculus I and II, Linear & Non-Linear Multivariable Analysis I & II (min 16 cr)

Minor Requirements—3100/3101(5 cr); 3301/3302/3305 or 3331/3332/3335 (10 cr); 5520/5521 or 5533/5534 or 5534/5535 (6-8 cr)

More information is available from the Undergraduate Advising Office, 135 Smith Hall.

HUMANITIES (Hum) (see *CLA Bulletin*, p. 173-177)

The Department of Humanities was closed in spring quarter, 1992. The major and minor in Humanities are no longer offered. Many courses previously offered through Humanities have become part of the curriculum of the Department of Cultural Studies and Comparative Literature. Other courses (including surveys of "Humanities in the Modern West" and "European Heritage") continue to be offered under the "Hum" designator.

A revised minor program, "Humanities in the West," was approved during 1992-1993. For information, inquire in 355 Ford Hall.

Minor Sequence

Required Preparatory Courses—Minor program: Humanities in the West. All courses must be completed with grades of "C" or higher, except that one course may be completed with a grade of "S."

Minor Requirements—One course from the Introduction to Western Civilization sequence (Hist 1021, 1022, 1023 or Hist 1021H, 1022H, 1023H: 5 cr). Three courses from the European Heritage and Modern World sequences (12 cr); two additional 3xxx-5xxx humanities courses (8 cr). The minor program must be approved by the Humanities curriculum coordinator. Not more than one Humanities course in the Minor course program may be taken at the 1xxx level. Not more than one course at the 3xxx-5xxx-level in the minor course program may be taken on a Directed Study, Directed Instruction, or Independent Study basis. Not more than one course at the 3xxx-5xxx level in the Minor course program may be taken on the S-N basis.

CHANGES

For complete information about changes in the following majors and minors, contact your adviser or the department office.

ARCHITECTURE (Arch)—B.A. Major Sequence

CULTURAL STUDIES AND COMPARATIVE LITERATURE (CSCL)—B.A. Major Sequence

COMPARATIVE LITERATURE (see *CLA Bulletin*, p. 100-101)

The undergraduate courses previously offered through the Department of Comparative Literature have become part of the curriculum of the Department of Cultural Studies and Comparative Literature.

DANCE—Minor Sequence

See *Department of Theatre Arts and Dance*

GEOGRAPHY (Geog)—B.A. Major Sequence

GEOLOGY AND GEOPHYSICS (Geo)—B.A. Major Sequence

GERMAN (Ger) B.A.—Major Sequence

**JOURNALISM AND MASS COMMUNICATION
(Jour)—B.A. Major Sequence**

**SCANDINAVIAN LANGUAGES AND LITERATURE—
B.A. Major Sequence**

SOCIOLOGY (Soc)—B.S. Major Sequence

SPEECH-COMMUNICATION (Spch))—Major Sequence

STATISTICS (Stat)—Minor Sequence

“NON-CLA” COURSES ALLOWED

Certain “non-CLA” courses (courses taught in other colleges of the University) that have liberal arts content may now be applied toward general education requirements in CLA. Students may take these courses in addition to the 28 “non-liberal arts” credits currently allowed. Students must obtain departmental approval before planning to apply courses from outside the college toward their major requirements. Additional courses will be added to this list; check with your advising college office for an updated list. These courses do not apply toward the CLA residency requirement.

AgE 1101;1102

Arch 1021-1022-1023; 1041-1042-1043; 3001; 3002; 5051-5052-5053-5054-5055-5056; 5101-5102-5103; 5137-5138; 5141-5142-5143; 5170; 5850; 5852-5853-5854-5855-5856; 5950; 5951; 5953; 5954; 5956; 5958; 5970

CBN 3001

CLS 5103; 5133; 5136

EPsy 1601; 1602; 1603

FScn 5120; 5122; 5123

GC 1078; 1111; 1112; 1131; 1132; 1133; 1136; 1137; 1161; 1162; 1163; 1166; 1167; 1171; 1172; 1173; 1211; 1212; 1221; 1225; 1230; 1231; 1232; 1233; 1234; 1235; 1236; 1237; 1241; 1243; 1251; 1252; 1274; 1275; 1276; 1277; 1281; 1282; 1283; 1284; 1285; 1287; 1291; 1292; 1293; 1294; 1295; 1296; 1311; 1312; 1313; 1331; 1333; 1351; 1355; 1357; 1361; 1362; 1363; 1365; 1366; 1367; 1371; 1374; 1375; 1376;

1381; 1382; 1383; 1384; 1421; 1422; 1442; 1452; 1454; 1456; 1461;
1463; 1464; 1465; 1471; 1474; 1481; 1483; 1484; 1485; 1486; 1505;
1701; 1705; 1733; 1812; 1813; 1814; 1815; 1816; 1817; 1831; 1832;
1833; 1835; 1836; 1837; 1851; 3003; 3115; 3132; 3134; 3164; 3173;
3211; 3212; 3213; 3232; 3236; 3238; 3243; 3251; 3276; 3282; 3285;
3286; 3292; 3294; 3311; 3335; 3342; 3344; 3345; 3352; 3354; 3361;
3362; 3374; 3376; 3377; 3423; 3425; 3454; 3461; 3462; 3464; 3471;
3472; 3484; 3531; 3612; 3616; 3720; 3721; 3722; 3725; 3726; 3823;
3824; 3825; 3826; 3827; 3828; 3831; 3832; 3833; 3834; 3835; 3836;
3841; 3845; 3921; 3922; 3923

HMed 3001-3002-3003; 5002; 5045; 5102; 5120-5130; 5400-5401-5402; 5410-
5411-5412

LA 1021-1022-1023; 3001-3002; 5562

PBio 1009; 1012; 3109; 3131; 3201; 5001; 5103; 5105; 5111; 5131; 5132;
5141; 5182; 5184; 5231; 5235; 5801; 5811

PIPh 3131; 5131; 5182; 5183; 5184

Rhet 1101; 1151; 1160; 1220; 1222; 1301-1302-1303; 1310-1311; 1376; 3254;
3370; 3374; 3375; 3380; 3381; 3562; 3700; 5325

VPB 3103

BULLETIN CHANGES

Name change: Department of Studio Arts name changed to Department of Art.

MINOR REQUIREMENTS—ECONOMIC THEORY (See *CLA Bulletin*, p. 111)

Change Econ 3013 to Econ 3103.

REVISED RESIDENCY REQUIREMENT--BIS (See *CLA Bulletin*, p. 7, 10, 11, 27)

At least 45 of the 85 credits in the BIS (Bachelor of Individualized Studies) program must be earned following completion of the BIS admission process.

GENERAL EDUCATION REQUIREMENTS

This is a complete listing of courses approved to meet the general education requirements and includes courses that may not be taught during the next two years and therefore may not be listed in the Bulletin. See the guidelines on page 308 of the *CLA Bulletin*. Advising offices have “overlap lists” that indicate which courses fulfill more than one general education requirement

Any course which is cross-listed with an approved general education course may be applied toward the same requirement, even if it does not appear in the approved course list.

Some courses in this list may have new course numbers or designators; refer to the listings of course number and designator changes in this Supplement to determine those courses.

GROUP A—LANGUAGE, LOGIC, MATHEMATICS, AND THE STUDY OF ARGUMENT

Courses that can be used to fulfill the formal language requirement are identified with an asterisk.

CSci	*3113
Engl	3851; 3852
Fren	3701
Geog	1501; 3531
Ger	3704; 3705
Jpn	3451
Ling	3001; 3001H
Math	*1001; *1031; *1038; 1051; 1058; *1111; *1131; *1142; *1151; *1171-*1181-*1191; *1201; *1251- *1252; *1261; *1551H-*1552H; *1553H-*3551H- *3552H; *1711H-*1721H-*1731H
Phil	*1001; *1001H; 1005; *3201; 3231
Pol	*3085; *3085H
Psy	*3801; *3801H
Soc	*3801; *3801H; *3802; *3802H
Span	3107; 3701; 3702
Spch	1313
Stat	*1001; *3011-*3012; *3091

GROUP B—THE PHYSICAL AND BIOLOGICAL UNIVERSE

Courses in boldface are foundation courses. Laboratory courses are identified with an asterisk.

Anth	3001; 3002
Ast	1011 ; *1015; *1015H; 1019 ; 1021H ; *1025H; * 1031
BioC	1401

Biol	*1009; *1009H; 1101; *1103; *1106; *1201; *1202; 1301; *3012; 3112
Chem	*1001; *1002; *1003; 1008; *1051-*1052; *1051H- *1052H; 3100-[†]3101; 3301
EEB	1019; 3001
FScN	1612
GCB	3002; 3022
Geog	1401; 1402; *1425; 3431
Geo	1001; *1002; 1005; 1011; 1012; 1019; *1021; 1601
Phsl	*1001
Phys	1001; *1005; *1041-*1042; 1061; *1065; 1071; *1075; 1104- 1105-1106; *1107-*1108-*1109; *1251-*1252-1253-1254; 1271-1281-1291; *1275-*1285-*1295; *1451H-*1452H- *1453H-*1454H; *1911-*1912[†]
Psy	3031; 3061
PBio	*1009; 1012
WoSt	3202

GROUP C—INDIVIDUAL AND SOCIETY

C—1. THE INDIVIDUAL AND INSTITUTIONAL BEHAVIOR

Afro	1011; 3013; 3025; 3061; 3072
AmIn	1771
AmSt	3112; 3113; 3114
Anth	1102; 1102H; 3201; 3224
Arch	3001; 3002
Chic	3712
CPsy	1301; 3309
CICv	3201
Clas	1201; 3201
CDis	3101
CSCl	3979
EAS	3481
Econ	1101; 1101H; 1102; 1102H; 1104; 1105; 3501; 3701; 3801
Geog	1301; 3101; 3102; 3331; 3371
ID	3170; 3180
Jour	1001
Ling	1005
Mus	1602
Pol	1001; 1001H; 1025; 1025H; 1026; 1054; 3051; 3051H; 3321
Psy	1001; 1001H; 1004-1005 [‡] ; 3011; 3014; 3101; 3201; 3604; 3666
SALC	1506; 3506
Slav	3511

Soc 1001; 1001H; 1003; 1004; 1651; 3102; 3201; 3201H; 3401;
3401H; 3481; 3755
UrbS 3104
WoSt 1001; 1002; 1003; 3305; 3406

C—2. THE HISTORICAL PERSPECTIVE

Afro 1021; 3001; 3002; 3421; 3954
Amln 3111; 3112
ANE 3501; 3502; 3505
Anth 1101; 1101H; 3003
ArtH 1002; 3252; 3577
CAS 3531; 3611
Chic 3105; 3106; 3107; 3441; 3442
Chn 1201; 1202
Clas 1001; 1002; 1003; 1004; 1005; 1006; 1023; 1024; 1025; 1043;
3023; 3024; 3025; 3175; 3252
CSCL 1302; 3254; 3458; 3472
EAS 1063; 1461; 1462; 1463
GC 1221
Geog 3373
Hist 1001; 1002; 1003; 1011; 1012; 1013; 1021; 1022; 1023; 1051;
1052; 1053; 1101; 1151; 1152; 1301; 1302; 1305; 3001; 3002;
3003; 3051; 3052; 3053; 3101; 3151; 3152; 3244; 3245; 3401;
3402; 3424; 3431; 3432; 3441; 3442; 3461; 3462; 3463; 3505;
3541; 3542; 3543; 3547; 3614; 3615; 3626; 3627; 3631; 3636;
3637; 3641; 3642; 3704; 3707; 3708; 3709; 3714; 3871; 3872;
3891; 3892
HMed 3001; 3002; 3003
HSci 1711; 1712; 1713; 1811; 1812; 1813; 3711; 3712; 3713; 3811;
3812; 3813
Hum 1001; 1002; 1003; 1004; 1005; 1111; 1113; 1115; 1117; 1119;
3001; 3002; 3003; 3004; 3005; 3111; 3113; 3115; 3117; 3119;
3635
JwSt 3521
LAS 3131; 3401; 3402
MELC 3505; 3507; 3508; 3511; 3512; 3541; 3542; 3543
ReIS 3501; 3502; 3505; 3508; 3541
SALC 3501; 3502; 3611; 3635
Scan 1504
Soc 3477; 3954
WoSt 3103

C—3. SOCIAL AND PHILOSOPHICAL ANALYSIS

Afro 3011

AmIn 3026; 3036; 3211
 AmSt 1001; 1002; 1003
 Arab 3011
 ArtH 3035
 CAS 3521; 3601
 Clas 1042; 3035; 3071; 3072; 3073
 C_SCL 1303; 3176; 3196; 3331
 EAS 1032
 Hebr 3301
 Hist 3281; 3282
 Hum 3281; 3282
 ID 3101; 3333; 3334
 JwSt 1034; 3034; 3522
 Jour 3745
 MELC 3036; 3521; 3555; 3601
 Phil 1002; 1003; 1004; 1006; 3001; 3002; 3003; 3004; 3302; 3304;
 3305; 3307; 3308
 Pol 1041; 1061
 RelS 1001; 1031; 1032; 1034; 1035; 1036; 3031; 3034; 3035; 3036;
 3037; 3071; 3072; 3073; 3196; 3412; 3413; 3414
 SALC 1504; 3411; 3412; 3413; 3414
 WoSt 3102

GROUP D—LITERARY AND ARTISTIC EXPRESSION

Afro 3301; 3514; 3591; 3592; 3601; 3654
 AmIn 3116; 3242
 AmSt 3111
 ANE 1001; 1002; 1003; 3001; 3002; 3003; 3251
 Arab 3213; 3301; 3302; 3303
 Arch 3411; 3412
 ArtH 1001; 1016; 1921; 3001; 3008; 3009; 3011; 3012;
 3013; 3014; 3015; 3017; 3325; 3411; 3412; 3484; 3942
 ArtS 1101; 1301; 1302; 1401; 1404; 1510; 1520; 1530;
 1540; 1602; 1701; 1811; 1812; 3131; 3306; 3655
 Chic 3213; 3507; 3508
 Chn 3161; 3162; 3163; 3165; 3266
 ClCv 3510; 3711
 Clas 3001; 3002; 3003; 3008; 3065; 3081; 3082; 3083
 C_SCL 1301; 1921; 3132; 3172; 3174; 3175; 3931
 Dnce 1101; 3401; 3402; 3666
 EAS 3013; 3020
 Engl 1005; 1013; 1016; 1017; 1018; 1019; 1069; 1241;
 1591; 1595; 1621; 1671; 3008; 3009; 3115; 3116;
 3117; 3118; 3119; 3121; 3218; 3241; 3242; 3251;

	3252; 3355; 3356; 3357; 3411; 3412; 3413; 3591; 3592; 3621; 3651; 3671; 3711
EngW	1101
Fren	3101; 3103; 3207; 3229
Ger	3104; 3105
Hebr	3304; 3307
Hum	3256
Ital	3303; 3305
Jpn	3161; 3163; 3164; 3165
JwSt	3115; 3315
Lat	3440
MELC	3213; 3601; 3602
Mus	1001; 1004; 1021; 1051-1052-1053; 1531; 1804; 3021; 3410; 3420; 3430; 3707
Phil	3502
RelS	3115; 3201; 3202; 3203; 3213; 3251
Russ	3421; 3422
SALC	3456
Scan	3503; 3505; 3601; 3602; 3604; 3605; 3607; 3618
Span	3104; 3211; 3212; 3213; 3614
Th	1101; 1102; 1301; 1805; 3171; 3172; 3173
WoSt	3303; 3304; 3306; 3307; 3308; 3308H; 3309

WORLD STUDIES REQUIREMENT

Afro	1021; 3001; 3002; 3011; 3013; 3421; 3514; 3601; 3654; 5142; 5301; 5341; 5678; 5800; 5876
AmIn	1771; 3121; 3242; 5251; 5341; 5411; 5422
AmSt	5251
ANE	3101; 3117; 3251; 3501; 3502; 3505; 5501; 5502; 5505
Anth	1102; 3003; 3131; 3211; 3222; 3223; 3224; 3241; 3261; 3293; 3303; 3521; 5102; 5112; 5114; 5115; 5116; 5118; 5121; 5131; 5132; 5141; 5151; 5153; 5154; 5161
Arab	3011; 3213; 3301; 3302; 3303; 5001; 5501; 5502; 5503
Arch	5057
ArtH	1016; 3013; 3014; 3015; 3017; 3142; 3942; 5725; 5765; 5766; 5767; 5769; 5775; 5776; 5777; 5911
CAS	3521; 3531; 3611
Chic	3105; 3375; 3427
Chn	1201; 1202; 3161; 3162; 3163; 3165; 3266
Clas	3142
CPsy	5332
Dnce	3551; 5487

EAS	1032; 1063; 1461; 1462; 1463; 3013; 3020; 3211; 3281; 3315; 3464; 3465; 3467; 3468; 3471; 3474; 3481; 3808; 5481
Econ	3315; 5301; 5315; 5331
Engl	1595; 5862
FoSt	1120; 3120; 3130; 3140; 3280; 3520; 3550; 3690; 3760
Geog	3121; 3131; 3141; 3211; 3212; 3213; 3215; 3221; 5131; 5132; 5142; 5211; 5212; 5215; 5322
Hebr	3301; 3304; 3307
Hist	1011; 1012; 1013; 1051; 3043; 3051; 3401; 3402; 3403; 3410; 3411; 3412; 3424; 3425; 3426; 3427; 3431; 3432; 3434; 3450; 3461; 3462; 3463; 3464; 3465; 3467; 3468; 3471; 3474; 3475; 3480; 3481; 3484; 3488; 3489; 3491; 3505; 3541; 3542; 3543; 3544; 3547; 3551; 3552; 5137; 5420; 5432; 5444; 5445; 5447; 5461; 5463; 5464; 5465; 5467; 5468; 5473; 5514; 5515; 5517; 5518; 5519; 5521; 5522; 5730; 5901; 5902; 5903; 5930; 5931 5833
Hum	5833
Jpn	3162; 3163; 3164; 3165
JwSt	1034; 3034; 3100; 3315
LAS	3131; 3134; 3221; 3222; 3223; 3401; 3402; 3403; 3521; 5101; 5120; 5131; 5479; 5930
MELC	3036; 3213; 3301; 3302; 3303; 3305; 3508; 3511; 3521; 3541; 3542; 3543; 3555; 5001; 5036; 5508; 5521; 5523; 5525
Mus	1804; 3808; 5804; 5811
Pol	3477; 5467; 5473; 5477; 5478; 5479
Port	3501; 3502; 3602; 3603; 5210
RelS	1031; 1032; 1034; 3031; 3034; 3036; 3037; 3100; 3213; 3251; 3412; 3413; 3414; 3501; 3502; 3505; 3508; 5031; 5036; 5505; 5508; 5412; 5414
SALC	1504; 1506; 3202; 3411; 3412; 3413; 3414; 3501; 3502; 3506; 3607; 5202; 5203; 5411; 5412; 5413; 5414; 5500; 5520; 5535; 5710; 5833
Soc	3315; 3481; 3551; 3671; 5481
Span	1502; 1503; 3105; 3251; 3252; 3253; 3512
SpPt	3605
WoSt	1003; 3308; 3405; 5301; 5401

CULTURAL PLURALISM REQUIREMENT

Afro	1011; 3025; 3072; 3108; 3301; 3543; 3591; 3592; 3864; 3865; 3954; 5072; 5701; 5702
AmIn	1771; 3026; 3036; 3111; 3112; 3116; 3211; 3242; 5251; 5341; 5411; 5422
AmSt	1001; 1002; 1003; 3113; 3401
Anth	3211; 3212
ArtH	3942

Chic	3106; 3107; 3212; 3213; 3375; 3441; 3442; 3507; 3508; 3712
CDis	5103
CSCL	3472; 3979
Dnce	3486
EAS	3868
Engl	1591; 3591; 3592
Geog	3101; 3375
Hist	1301; 1302; 1305; 3441; 3442; 3801; 3812; 3864; 3865; 3867; 3868; 3871; 3872
ID	3201; 3205
Jour	3741; 3745
Ling	3812
Phil	1006; 3308
Pol	3739
Soc	1004; 3951; 3954
Th	1805
UrbS	3301
WoSt	1001; 3306; 3406

SECOND LANGUAGE GRADUATION REQUIREMENT

As of fall 1993, CLA offers graduation proficiency testing in the following languages to fulfill the second language requirement:

American Sign Language, Chinese, Dakota, Danish, Dutch, Finnish, French, German, Greek (biblical), Greek (classical), Hebrew (modern), Irish, Italian, Japanese, Latin, Norwegian, Ojibwe, Portuguese, Russian, Spanish, Swedish.

Tests have been proposed in Arabic, Greek (modern), Hindi, and Polish. **Consult the respective department or your adviser before you begin the study of any language which lacks a graduation proficiency examination.** Croation and Serbian, Korean, Marathi, Persian, Sanskrit, Swahili, Turkish, and Urdu may not be taken to fulfill the CLA second language requirement. However, they count for degree credit and may count toward major requirements.

COURSE TITLE CHANGES

ART

3550. PRINTMAKING: EXPANDED APPROACHES/MONOPRINTS

5550. PRINTMAKING: EXPANDED APPROACHES/MONOPRINTS

ART HISTORY (ArtH)

3013. INTRODUCTION TO EAST ASIAN ART

BIOCHEMISTRY (BioC)

5401. METABOLISM AND ITS REGULATION

CHEMISTRY (Chem)

3301. ORGANIC CHEMISTRY I

3302. ORGANIC CHEMISTRY II

3303. ORGANIC CHEMISTRY III

3305. ORGANIC CHEMISTRY LABORATORY I

3306. ORGANIC CHEMISTRY LABORATORY II

3335H. HONORS ORGANIC CHEMISTRY LABORATORY

3336. ORGANIC CHEMISTRY LABORATORY III

3336H. HONORS ORGANIC CHEMISTRY LABORARY

EAST ASIAN STUDIES (EAS)

3013. INTRODUCTION TO EAST ASIAN ART

ENGLISH AS A SECOND LANGUAGE (ESL)

0216. LOWER INTERMEDIATE ORAL SKILLS

0316. ENGLISH AS A SECOND LANGUAGE: ORAL SKILLS I

0326. ENGLISH AS A SECOND LANGUAGE: ORAL SKILLS II

GEOGRAPHY (Geog)

3381. POPULATION IN AN INTERACTING WORLD

GEOLOGY AND GEOPHYICS (Geo)

5505. SOLID-EARTH GEOPHYSICS I

5506. SOLID-EARTH GEOPHYSICS II

5507. SOLID-EARTH GEOPHYSICS III

HISTORY (Hist)

3151- 3152. HISTORY OF THE BRITISH ISLES

3811. POLITICS AND SOCIETY IN THE 19TH CENTURY

5807. RESEARCH IN U.S. POLITICAL HISTORY

HUMANITIES (Hum)

1001. HUMANITIES IN THE MODERN WEST I

1002. HUMANITIES IN THE MODERN WEST II

1003. HUMANITIES IN THE MODERN WEST III

1004. HUMANITIES IN THE MODERN WEST IV

1005. HUMANITIES IN THE MODERN WEST V

PHYSICS (Phys)

Phys. 5950 COLLOQUIUM SEMINAR

POLITICAL SCIENCE (Pol)

5471. POLITICS OF RUSSIA AND THE COMMONWEALTH OF
INDEPENDENT STATES

RUSSIAN (Russ)

5021. RUSSIA STUDY TOUR

SCANDINAVIAN LANGUAGES AND LITERATURE

3670. TOPICS IN SCANDINAVIAN STUDIES: FICTION AND FILM

SLAVIC (Slav)

3511. SOUTHEAST EUROPE: SLAVIC CULTURAL DIVERSITY

SPEECH-COMMUNICATION (SPCH)

5451. INTERCULTURAL COMMUNICATION

5452. INTERCULTURAL INTERACTION: THEORY AND APPLICA
TION

COURSE NUMBER AND DESIGNATOR CHANGES

The table below records changes of course numbers and designator since publication of the current (1992-94) *CLA Bulletin*. Students should not register for courses under the new designators if they have received credit for equivalents under old designators.

New CSCL courses took effect Summer Session I.

OLD	NEW
Arch 3110	Arch 5311
BioC 5002	BioC 5401
CLit 1921	CSCL 1921
CLit 3215	CSCL 3115
CLit 3332	CSCL 3132
CLit 3910H	CSCL 3910H
CLit 3912	CSCL 3412
CLit 3913	CSCL 3413
CLit 3931	CSCL 3931
CLit 3979	CSCL 3979
CLit 5221	CSCL 5751
CLit 5751	CSCL 5751
CLit 5910H	CSCL 5910H
CLit 5970H	CSCL 5970H
EAS 3300/3940	AREA 3910
EAS 3970	AREA 3970
EAS 3990	AREA 3990
EAS 5504H	AREA 5504H
EAS 5950	AREA 5910
EAS 5970	AREA 5970
EAS 5990	AREA 5990
ESL 0100	ESL 0201
ESL 0102	ESL 0207
ESL 0103	ESL 0206
ESL 0111	ESL 0211
ESL 0112	ESL 0217
ESL 0113	ESL 0216
ESL 0115-6	ESL 0316
ESL 0117	ESL 0312
ESL 0121	ESL 0221
ESL 0122	ESL 0227
ESL 0123	ESL 0226

OLD

ESL 0125-6-7
ESL 0130
ESL 0131
ESL 0132
ESL 0133
ESL 0134
ESL 0136
ESL 0137
ESL 0138
ESL 0139
ESL 0140
ESL 0141
ESL 0145

Geo 3102
Geo 5611

Hist 5474

Hum 1301
Hum 1302
Hum 1303
Hum 3172
Hum 3174
Hum 3176
Hum 3196
Hum 3198
Hum 3252
Hum 3254
Hum 3272
Hum 3274
Hum 3321
Hum 3366
Hum 3456
Hum 3458
Hum 3472
Hum 3625
Hum 3643
Hum 3655
Hum 3701
Hum 3737
Hum 3738
Hum 5102
Hum 5152
Hum 5154
Hum 5256

NEW

ESL 0312
ESL 0233
ESL 0231
ESL 0237
ESL 0235
ESL 0234
ESL 0251
ESL 0252
ESL 0254
ESL 0253
ESL 0255
ESL 0256
ESL 0343

Geo 3402
Geo 5641

Hist 3475

CSCS 1301
CSCS 1302
CSCS 1303
CSCS 3172
CSCS 3174
CSCS 3176
CSCS 3196
CSCS 3198
CSCS 3252
CSCS 3254
CSCS 3272
CSCS 3274
CSCS 3321
CSCS 3366
CSCS 3456
CSCS 3458
CSCS 3472
CSCS 3331
CSCS 3276
CSCS 3341
CSCS 3175
CSCS 3277
CSCS 3474
CSCS 5102
CSCS 5152
CSCS 5154
CSCS 5256

OLD

Hum 5301
Hum 5302
Hum 5392
Hum 5711
Hum 5831
Hum 5832
Hum 5835

LAS 3970
LAS 3990
LAS 5504H
LAS 5530
LAS 5950
LAS 5970
LAS 5990

MAR 5131
MAR 5132
MAR 5133

MidE 3211
MidE 3212
MidE 3301
MidE 3302
MidE 3303
MidE 3491
MidE 3505
MidE 3507
MidE 3511
MidE 3512
MidE 3541
MidE 3542
MidE 3543
MidE 3544
MidE 3545
MidE 3612
MidE 3970
MidE 3990
MidE 5311
MidE 5503
MidE 5504H
MidE 5730
MidE 5950
MidE 5970
MidE 5990

NEW

CSCL 5301
CSCL 5302
CSCL 5392
CSCL 5711
CSCL 5831
CSCL 5832
CSCL 5835

AREA 3970
AREA 3990
AREA 5504H
AREA 5930
AREA 5930
AREA 5970
AREA 5990

SALC 5710
SALC 5710
SALC 5710

MELC 3211
MELC 3212
MELC 3301
MELC 3302
MELC 3303
MELC 3491
MELC 3505
MELC 3507
MELC 3511
MELC 3512
MELC 3541
MELC 3542
MELC 3543
MELC 3544
MELC 3545
MELC 3612
AREA 3970
AREA 3990
MELC 5311
MELC 5503
AREA 5504H
MELC 5730
AREA 5940
AREA 5970
AREA 5990

OLD

Mus 5531

RAS 3970
RAS 3990
RAS 5504H
RAS 5950
RAS 5970
RAS 5990SALL 5970
SALL 5990Serb 1101-2-3
Serb 1104-5-6
Serb 3511
Serb 5970SoAs 1504
SoAs 3031
SoAs 3414
SoAs 3950
SoAs 3970
SoAs 3990
SoAs 5031
SoAs 5414
SoAs 5504H
SoAs 5531
SoAs 5532
SoAs 5730
SoAs 5950
SoAs 5970
SoAs 5990**NEW**

MUS 3534

AREA 3970
AREA 3990
AREA 5504H
AREA 5950
AREA 5970
AREA 5990SALC 5970
SALC 5990CrSr 1101-2-3
CrSr 1104-5-6
SLAV 3511
CrSr 5970SALC 1504
SALC 3031
SALC 3414
AREA 3960
AREA 3970
AREA 3990
SALC 5031
SALC 5414
AREA 5504H
SALC 5531
SALC 5532
SALC 5730
AREA 5960
AREA 5970
AREA 5990



10% Post-consumer de-inked fiber
Please recycle