

to the College and appropriate Federal, State or private agencies. Refer to the refund policies and schedule in the Financial Obligations section of this catalog. Except in cases involving medical problems or other personal exigencies approved by the Dean of Students, a student withdrawing or taking a leave of absence during a semester will lose a semester's eligibility for financial aid unless the student repays the amount of the Colorado College scholarships used for that semester.

Appeals

Students have the right to appeal any decision concerning financial aid eligibility or awards to the Financial Aid Committee through the Director of Financial Aid.

Veterans' Education

Veterans or war orphans planning to enroll under the provisions of Title 38, United States Code, should apply before registration for a certificate for education and training through the Veterans Administration. A veteran planning to attend under the provisions of Public Law 894 (Vocational Rehabilitation Act) is required to furnish a letter of authorization from the Veterans Administration.

The first payment to students enrolled under Title 38, United States Code, is normally delayed until the second month. Subsequent payments are made on the first day of the month, paid in arrears.



The College Academic Program

1995 Colorado College catalog
degree requirements

Colorado College seeks to provide a broad education. The College therefore requires students to gain some knowledge and experience in a variety of areas and to study at least one academic discipline in depth. During the second year at the college, a student chooses a major field in which to take concentrated work. The major may be in one of the following academic fields: anthropology, art, biology, chemistry, classics, dance, drama, economics, English, French, geology, German, history, mathematics, music, philosophy, physics, political science, psychology, religion, Romance languages, sociology and Spanish. Students may take a business concentration within the economics major and a computer science concentration within the mathematics major. Many other majors allow special concentrations within broad disciplinary study.

The College also offers several combined or distributed majors for students whose interests require concentrated work in more than one department. Such major fields are Classics-History-Politics, Comparative Literature, History-Philosophy, History-Political Science, and Political Economy. Self designed majors are possible under the heading of Liberal Arts and Sciences.

Requirements for graduation in each major field are listed under the appropriate titles in the Departmental Courses section.

All-College Requirements for the Bachelor of Arts Degree (B.A.) at Colorado College

The following requirements apply to all entering students. They do not apply to students enrolled prior to September 1988. Students who enrolled prior to September 1988 are governed by prorated unit requirements determined by the Registrar. In no case may they be disadvantaged by transition from the nine to eight block year.

- G** I. Students must satisfactorily complete 32 units of academic credit, at least 18 of which must be taken outside of the department of the major. Students will receive one unit of academic credit for each block of course work completed with a passing grade.

Colorado College 1995

- II. Students must satisfactorily complete a major course of study. There are over 20 possible majors at Colorado College, including a major of the student's own design, the Liberal Arts and Sciences Major. Students at Colorado College may complete a double major. The following rules must be observed: the two majors may be from traditional departmental majors or an interdisciplinary major and a departmental major as long as the latter is not a discipline making up part of the interdisciplinary major; both departments must approve the option and in no case may more than three courses within the majors overlap; the student must have an adviser in each major; student must complete all-college requirements.

The number of units required to complete a major ranges from 8 to 14. The specific requirements for each major may be found in the Departmental Courses section of the catalog. The completed major(s) will be recorded on the student's official transcript. This requirement will provide students the experience of study in depth.

- III. The general education requirement at Colorado College includes four units of credit in Alternative Perspectives: A and B. The AP:A requirement is a two-unit course which provides an understanding of the development and the nature of significant dimensions of the Western tradition. This requirement will normally be completed by the end of the sophomore year. The AP:B requirement is two units of credit in courses that examine cultures outside the mainstream of Western culture (non-Western cultures, minority cultures within the West, and gender studies). Courses that meet the AP:A and AP:B requirements are so designated in the course schedule. A course marked AP:C fulfills either the AP:A or AP:B requirement. Courses which fulfill the AP:A and requirements are listed under the Departmental Course section of this catalog.

This requirement will provide students with historical and critical understanding of Western culture and an understanding of and appreciation for non-Western cultures, enabling them to see both the distinctive and common elements of human cultures.

- IV. Students must satisfactorily complete three units of credit in the Natural Sciences, one unit of which must provide laboratory or field experience. Courses that meet this requirement are so designated in the course schedule and this catalog. This requirement provides another important perspective: that of the natural world of which humans are only a part. It will provide an understanding of the basis for most present and future technology and thus of a principal source of social change. In addition it will help students develop important quantitative skills and skills in analytical thinking, modeling and hypothesis testing by having them participate in the scientific process in the laboratory or field.

V. Students must satisfactorily complete...

- A: a thematic minor of at least five units, including courses from at least two departments other than the major department, related through the examination of a theme, a cultural group or area of the world, or a time period. Some of the work in the minor must be beyond the introductory level, and one unit of the minor, but no more than one, may be in the major department. (For multi-department majors, the department which has the most courses is the major department.) Each minor must culminate with an integrative experience: a paper, a project, a block of independent study, a special seminar, etc. There are over 30 minors listed in the Interdisciplinary Studies and Courses section of this catalog; students also have the option of designing their own. A full description of each of the thematic minors designed by the faculty may be found in the Thematic Minor Index (available from the registrar's office). The completed thematic minor is recorded on the student's official transcript.

This requirement promotes the student's ability to synthesize and integrate different disciplinary perspectives on a common theme.

OR

- B: a distribution requirement of nine units outside the division in which the student chooses to major. The three divisions of the College are the Humanities, the Social Sciences and the Natural Sciences.

Humanities courses are courses in art history and theory, classics, drama and dance, East Asian Languages, English, German, music theory and history, philosophy, religion, Romance languages, Russian, and courses designated Studies in the Humanities (HS). Elementary foreign language courses do not meet the Humanities division requirement.

Social Science courses are courses in anthropology, economics, history, political science, sociology.

Natural Science courses are courses in biology, chemistry, geology, mathematics, physics, psychology (unless designated otherwise in the catalog), sports science, and courses designated Studies in the Natural Sciences (NS). Courses meeting requirement IV, above, also meet the Natural Science division requirement.

Students must take at least three units in each of the divisions outside the division of the major. Three other units may come from either division outside that major or from general studies courses which are not located in any division.

This requirement provides students with breadth of learning among the divisions of the College and will give them a

1995 Colorado College

lectual experience in each division.

- VI. Courses taken at other institutions will be granted as much equivalent credit as deemed appropriate by the Registrar.
- VII. Students are required to take their final eight units for the degree in Colorado College programs and courses. Exceptions to this rule may be made by the Dean's Advisory Committee.
- VIII. In extended format courses students normally earn one-half unit toward their degree requirement for each semester of work. Students may take no more than one extended format course per semester unless the Dean of the College grants permission for an overload.
- IX. In each adjunct course students may earn one-quarter unit toward their degree requirement for each semester of work. Students may take no more than three adjunct courses per semester, unless the Registrar grants permission for an overload.

Requirements for the Master of Arts in Teaching degree (M.A.T.) at Colorado College

Colorado College offers two distinct M.A.T. programs: one for recent college graduates who wish to become licensed to teach at the elementary level or at the secondary level in mathematics or science, and one for experienced teachers.

The M.A.T. programs for prospective elementary and secondary school teachers are designed for liberal arts graduates who have taken few, if any, education courses. Each program is fifteen months in length, consisting of two Summer Sessions and one intervening academic year. The first summer and the fall semester are devoted to intensive course work and student teaching. During the spring semester, candidates serve as intern teachers in local public schools. Degree work is completed with course work the following summer. After successful completion of the program, students receive the M.A.T. degree and are recommended to the State of Colorado for licensure.

The program for elementary school teachers is appropriate for all general teaching positions in elementary schools. The secondary school teaching program is restricted to the M.A.T. in Mathematics and the M.A.T. in Science. All candidates must comply with the newly implemented Program for Licensing Assessments for Colorado Education (PLACE). Students are urged to contact the Colorado College Education Department as soon as possible for information on PLACE.

Four M.A.T. programs are offered in the Summer Session for experienced teachers: Humanities for Secondary School Teachers, Liberal Arts for Elementary School Teachers, Integrated Science, and Southwest Studies for teachers of all grade levels. These programs are designed to offer degree candidates opportunities to expand their knowledge in a

variety of fields, to acquire knowledge they can apply to their profession, and to examine new developments in the field of education.

Degree candidates are required to complete a minimum of eight Colorado College units (32 semester hours), to write one masters research paper, to pass an oral examination, and to complete two colloquia, week-long afternoon seminars, on current topics of concern to educators. The degree must be completed in no more than five summers. Up to eight semester hours of graduate credit earned within the past seven years at other accredited colleges or universities may be applied toward the degree.

Most M.A.T. candidates complete the majority of their requirements through the interdisciplinary Arts and Humanities and Southwest Studies Institutes. These two-unit institutes are designed to explore in depth a different topic each summer.

Information about these programs is available at the Summer Session office.

The Summer Session

The Summer Session offers a wide range of academic programs for the College's own undergraduates as well as those from other colleges and universities, for qualified high school juniors and seniors, and for graduate students. In addition, 10 to 15 percent of each Colorado College freshman class begin their college careers in the summer and then return for the spring semester. Places are set aside for Summer Start Freshmen in a variety of different summer programs.

The 9-week Summer Session is an extension of the Block Plan, offering three, three-week blocks, with the first block beginning in mid-June and the third block ending in mid-August. Courses last for three, six or nine weeks, giving one, two or three Colorado College units of credit.

Summer programs provide unique opportunities for interdisciplinary study under faculty from the College and from other distinguished colleges and universities. In 1995, some of the courses being offered on-campus are Geology of the Rockies Institute; Fiction; Reading It, Writing It; Organic Chemistry; Freedom and Authority in the Western Tradition; Theatre Institute; Basic Photography; and an integrated Natural Science Institute.

The Summer Session also sends several courses to off-campus locations in the United States and abroad. In 1995, a course on Marine Invertebrate Zoology is being offered at the Lloyd Center for Environmental Studies in South Dartmouth, Massachusetts; a course on Italian Language and Culture is being offered in Italy; a course on the politics and history of Brazil is being taught in Brazil, and courses are also going to Santa Fe, New Mexico, and Seattle, Washington.

Summer Reading Program

Each member of the faculty may work with one or two off-campus students in a summer reading course. Each student approved by the instructor, the Department Chair, and the Dean of the Summer Session,

History-Philosophy

Professors ASHLEY, NEEL and GENOVA *Advisers.*

The Departments of History and Philosophy offer a combined major. The program for the joint major is developed by each student in conjunction with the history adviser, either Susan Ashley or Carol Neel, and the philosophy adviser, John Riker. An integrated program of courses, including at least six units in history and six units in philosophy, must receive the written approval of both advisers and department chairs before the student may declare the joint major. Students may develop a program of history and philosophy courses in a period (for example, the ancient world, the 17th and 18th centuries, the 19th century, or the 20th century), or in an area (for example, American, European, or Asian history and philosophy), or in a series of issues such as the nature of historical knowledge. In the senior year, each student writes three essays in response to questions assigned in the fall of that year based on their integrated program of studies. The essays are the basis for an oral comprehensive examination administered by faculty members from both departments. Students must complete the second year course of one foreign language or the equivalent.

History-Political Science

Professors ASHLEY and LEE, *Advisers.*

This major gives students the opportunity to apply the perspectives of history and political science to a selected world area. Any student choosing this major must develop a concentration in one of the following areas of study: United States, Europe, Latin America-Africa, Africa-Asia. Lists of the courses relevant to each area are available from departmental advisers.

To enter this major, students must take either History 105 or Political Science 103, then four units in the department in which the qualifying course was taken and five units in the other department. No more than one unit of independent readings or research may be used to fulfill these requirements. Students choosing to concentrate in Europe, Latin America-Africa, or Africa-Asia must complete the second-year course or its equivalent in a foreign language appropriate to the area. These students may count up to two units of language at the 100 or 200 level toward the major (one toward the history requirement and one toward the political science requirement.) In addition students must complete History-Political Science 425 and at least one course in the Humanities division specifically related to the area of concentration. A written and oral comprehensive examination is administered by faculty members from both departments and must be scheduled by the student, in consultation with departmental advisers, during the senior year.

Students may write a thesis by which they may receive the B.A. degree "with Distinction in History-Political Science." Proposals for such theses must be approved by both departments before the end of the junior year. Students who have been off campus during the junior year may extend this deadline to the second Monday of Block 1 of the senior year.

Humanities- Please see page 190

Italian- Please see Department of Romance Languages.

Mathematics

Professors ANDERSON, JANKE, ROEDER, TINSLEY, J. WATKINS (*Assistant Chair*); *Associate Professors* HENDERSON (*Chair*), MERRILL, SIDDOWNAY; *Assistant Professors* DORRINGTON, LEVINSON.

A student may major in either Mathematics, or in Mathematics with emphasis in Computer Science. For either of these programs, a student must complete 203, 220 and 251. Once these courses have been completed, a student may declare a major in *Mathematics*, or in *Mathematics with emphasis in Computer Science*.

In addition to the general requirements, a major in Mathematics must complete

- 321 and 375
- 322 or 376 or 417
- Three other 300-400 level one unit courses (not meeting one of the requirement above), excluding 355, 455.

In addition to the general requirements, a major in Mathematics with emphasis in Computer Science must complete

- 221 and 222
- 313, 321 and 329
- One of 318 and 325
- One of 308 and 407
- One of 318, 325, 308, 407, 341 (not meeting one of the requirements above).

To be considered for graduation with *Distinction in Mathematics*, a student must complete three courses with a 300 level prerequisite, one of which must be 410. To be considered for graduation with *Distinction in Mathematics with emphasis in Computer Science*, a student must complete 375 and 407. In either case, such students must complete a senior project, and be approved by a vote of the mathematics faculty. Further information is available from the department.

110-Introduction to Number Theory. An introduction to mathematical thinking through elementary number theory, with emphasis on the historical development. Topics include prime numbers, perfect numbers, polygonal numbers and congruences. Several old problems and conjectures (some of them unsolved today) will be discussed. Not recommended for mathematics majors. (Not offered 1995-1996.) 1 unit - Roeder.

116-Discrete Mathematics. A selection of mathematical topics which have broad applications in the social sciences and elsewhere, with an emphasis on mathematical modeling. Graph theory, graph algorithms, matrices, linear programming, and game theory. Not recommended for mathematics majors. 1 unit - Roeder, Siddoway.

117-Probability and Statistics. An introduction to the ideas of probability, including counting techniques, random variables and distributions. Elementary parametric and non-parametric statistical tests with examples drawn from the social sciences and life sciences. (No credit if taken after Biology 220 or Economics 215.) Not recommended for mathematics majors. 1 unit - Department.

125-Pre-Calculus and Calculus. The same calculus as 126 together with materials from algebra, trigonometry, analytic geometry and the study of functions. Intended solely for students not sufficiently prepared for 126. (Fulfills one unit of the divisional requirement in the natural sciences.) *Prerequisite:* Consent of instructor. 2 units - Dorrington, Merrill.

126-Calculus 1. Differential and integral calculus of algebraic and transcendental functions and applications. Students normally begin the calculus sequence with this course. 1 unit - Department.

128-Calculus 2. Techniques of integration, applications of the definite integral, differential equations, infinite series. *Prerequisite:* 125 or 126. 1 unit - Department.

155, 255, 355, 455-Independent Study. *Prerequisite:* Consent of instructor. 1/2 or 1 unit - Department.

203-Calculus 3. Vectors in two and three dimensions, and the calculus of functions of several variables. *Prerequisite:* 128. 1 unit - Department.

217-Probability and Statistical Modeling. Introduction to probability distribution theory and statistical inference. Descriptive methods for building models with emphasis on linear regression models including variance and covariance. Analysis of model fit and discussion of modern robust techniques. (This course is an appropriate first course in statistics for students with stronger mathematical backgrounds.) (Not offered 1995-1996.) *Prerequisite:* 117 or 126. 1 unit - Janke, Tinsley.

220-Linear Algebra. Matrix algebra and Gaussian elimination. The geometry of vectors in \mathbb{R}^2 , \mathbb{R}^3 and \mathbb{R}^n . Vector spaces and linear transformation. Introduction to orthogonal geometry and eigenvalue problems. *Prerequisite:* 203. 1 unit - Henderson.

221-Computer Science I. Computational structures including arrays, files, and graphs. Examination of standard algorithms for searching, sorting, and string processing. Introduction to the PASCAL language. This is the first course for those interested in computer science. (Some previous programming experience is helpful.) 1 unit - Levinson, Merrill, Roeder. (For students interested in an introduction to programming and the use of computers, see NS 121-Introduction to Digital Computing.)

222-Computer Science II. Examination of the structure of algorithms. Design techniques including tree searches, recursion, and dynamic programming. *Prerequisite:* 221. 1 unit - Levinson.

229-The Computer Language "C". This language is widely used in industrial and scientific applications and leads very naturally to object-oriented programming, an important topic in Computer Science. Topics include: functions and procedures, arrays and other structures, dynamic allocation of memory, comparison of "C" with other common computer languages such as BASIC, FORTRAN, and Pascal. Students will complete a programming project in "C". *Prerequisite:* Solid understanding of at least one programming language and consent of instructor. (Not offered 1995-1996.) 1/2 unit - Roeder.

230-Combinatorics. An introduction to combinatorial structures and techniques of enumeration. Topics included: permutations and combinations, generating functions, recurrence relations. *Prerequisite:* 116 or 128. 1 unit - Wilson.

235-Computer Graphics. Introduction of the algorithms and theory necessary for producing graphic images with the computer. Topics include perspective, projection, hidden line removal, curve design, fractal images, shading, and some animation. *Prerequisite:* MA 221 or consent of instructor. (Not offered 1995-1996.) 1 unit - Janke.

240-Topics in Mathematics. Special topics in mathematics not offered on a regular basis. 1 unit - Department.

251-Number Theory. A careful study of major topics in elementary number theory, including divisibility, factorization, prime numbers, perfect numbers, congruences, Diophantine equations and primitive roots. *Prerequisite:* 203. 1 unit - Roeder.

300-Geometry. Some current topics in advanced and modern geometry. Topics drawn from linear geometry, affine, inversive and projective geometries, foundations and axiomatics, transformation groups, geometry of complex numbers. *Prerequisite:* 251. (Offered alternate years, not offered 1995-1996.) 1 unit - Roeder.

308-Theory of Computation. Topics drawn from automata theory, complexity theory, graph theory and artificial intelligence. *Prerequisite:* 222. (Not offered 1995-1996.) 1 unit - Roeder.

311-Vector Analysis. This course is an interdisciplinary approach to mathematical subjects which make up some of the language of physics. A physicist and a mathematician together combine physical motivation and mathematical rigor in the exploration of vector analysis, matrices. Vector functions, divergence and curl, Green's and Stoke's theorems, and the properties of 3-dimensional curves and surfaces are studied. Matrices and their properties, including eigenvalues and eigenvectors, are briefly investigated. (Also listed as Physics 311.) *Prerequisite:* Mathematics 203. 1 unit - Physics faculty.

312-Fourier Analysis. A physicist and a mathematician together combine physical motivation and mathematical rigor in the exploration of Fourier analysis. Fourier series, Fourier transforms, and orthogonal polynomials are studied, and are applied to topics such as the solution of partial differential equations and signal processing. (Also listed as Physics 312.) *Prerequisite:* Mathematics 220 or 311. 1 unit - Levinson and Physics faculty.

313-Probability. Probability spaces, discrete and continuous random variables, independence, expectation, distribution functions. *Prerequisite:* 203. 1 unit - Tinsley.

315-Differential Equations. An active study of differential equations arising from classical scientific problems. Review of first order equations, series solutions, oscillation theory, special functions, systems of equations, and existence and uniqueness theorems. *Prerequisite:* 203. 1 unit - Levinson.

318-Numerical Analysis. The study of numerical approximation techniques and their errors. Investigation of algorithms for finding roots of functions, values of derivatives and integrals, solutions of differential equations, and various matrix solutions. *Prerequisite:* 203 & 221 or consent of instructor. (Not offered 1995-1996.) 1 unit - Levinson.

320-Linear Algebra. Topics from the theory of vector spaces and linear transformations. Matrix manipulations with applications. Introduction to orthogonal geometry and eigenvalue problems. *Prerequisite:* 203. (Not offered after 1995-1996.) 1 unit - Siddoway.

321-Abstract Algebra I. An introduction to the abstract algebraic properties of groups, rings and fields. *Prerequisite:* 220 and 251. 1 unit - J. Watkins.

322-Abstract Algebra II. Continuation of Mathematics 321. *Prerequisite:* 321. 1 unit - J. Watkins.

325-Graph Theory. A study of graphs as finite mathematical structures. Emphasis on algorithms, optimization and proofs. *Prerequisite:* 116 or 128. 1 unit - Department.

329-Operating Systems: Unix. An introduction to the UNIX operating system, including file systems, shell commands, utility programs, and shell programming. (Not offered in 1995-1996.) *Prerequisite:* 222. 1/2 unit - Department.

340-Topics in Mathematics. Special topics in mathematics not offered on a regular basis.

Block 2: Mathematics Through Original Sources. A rigorous study of the fundamental ideas in number theory and set theory through the revolutionary works which fueled their development. Original papers by Euclid, Euler, Germain, and Kummer will be studied tracing the origins of modern algebraic number theory. The course will conclude with a study of the extraordinary evolution of modern set theory from Bolzano to Goedel and Cohen via the groundbreaking works of Georg Cantor. *Prerequisite:* 251. 1 unit - Siddoway.

Colorado College 1995

341-Topics in Computer Science. Special topics in computer science not offered on a regular basis. 1 unit - Department.

345-Research in Mathematics: An Introduction to the Nature of Mathematical Research. Investigation with a faculty member of current mathematical problems, usually chosen from the field of the faculty member's own research. *Prerequisite:* One 200 level mathematics course aside from Mathematics 203, and consent of instructor. (May be offered some years as an Extended Format course for 1/2 unit.) 1 unit - Tinsley.

375-Mathematical Analysis I. An introduction to the theoretical basis for the calculus. Sequences and series; topology of the real line; metric spaces; definitions of limit, continuity, compactness. *Prerequisite:* 220 and 251. 1 unit - Merrill.

376-Mathematical Analysis II. Continuation of Mathematics 375. A rigorous treatment of derivatives and integrals, culminating in an introduction to continuity and differentiation of functions of several variables and of vector-valued functions. *Prerequisite:* 375. 1 unit - Merrill.

399-Seminar in Mathematics. A semester-long study based on articles in current mathematical journals, or problems selected by the instructor. Topics will be chosen on the basis of interest and accessibility. Students will be responsible for presenting some of the material. May be repeated for a total of one unit of credit. *Prerequisite:* Consent of instructor. 1/2 unit - J. Watkins.

400-Topology. An introduction to the study of point-set topology. Examples of topological spaces; compactness, connectedness, and continuity; separation axioms. Additional topics chosen from algebraic or geometric topology. *Prerequisite:* 375. 1 unit - Dorrington.

407-Analysis of Algorithms. Investigation of the efficiency and design of algorithms including: order estimates, complexity, and NP problems. *Prerequisite:* 222 and 313. (Offered alternate years.) 1 unit - Feil.

410-Complex Analysis. The calculus of functions of a complex variable. Differentiation, contour integration, power-series, residue theory and applications, conformal mapping and applications. *Prerequisite:* 375 or consent of instructor. 1 unit - Henderson.

417-Mathematical Statistics. Brief introduction of probability, descriptive statistics, classical and Bayesian statistical inference, including point and interval estimation, hypothesis tests and decision theory. *Prerequisite:* 313 or consent of instructor. (Offered alternate years, not offered 1995-1996.) 1 unit - Janke.

440-Special Topics. Given on demand for a group of students interested in a topic not included in the regular curriculum. 1 unit - Department.

Music

Professors GAMER (Emeritus), M. GRACE (Chair), JENKINS, SCOTT; *Associate Professors* AGEE, LEVINE; *Assistant Professor* BEN-AMOTS; *Artist-in-Residence* S. GRACE; *Lecturer* LASMAWAN; *Instructors* D. ANDERSON, BOOTH, A. BRINK, D. BRINK, COOPER, DeWITT, DUTRA-SILVEIRA, FISHER, R. FOSTER, GOHL, HANSON, HEAD, KENDRICK, KIREILIS, MILLER, MURRAY, NAGEM, ROSE, SHELTON, SMITH, STEVENS, WILSON, ZUERCHER. *Sea Visiting Distinguished Professor* HAMM, *Visiting Assistant Professor* SCHLAGEL.

All students who wish to major in music must complete the following requirements: 395, 396, 397, 398; 315, 316, 317; 425, 428, a course in Ethnomusicology (104, 206, 221/2, 285, 290, 291, or 294).

(399, 429, or 430); and one unit of a music department elective from the 200 level or above. Music majors with an emphasis in Ethnomusicology must complete the seven core courses (395, 396, 397, 398, 315, 316, 317) in addition to the following: 104; one area or topics course (221, 222, 285, 290, 291, 294), 390; and Anthropology 102.

All music majors must complete at least one unit of applied music, participate in an ensemble directed by the Music Department for four semesters, and complete two units of a single foreign language or demonstrate equivalent competency. Majors must satisfy the piano proficiency requirement (all major and minor scales, one Bach two-part invention, or the first movement of a classical sonatina, one Chopin prelude, and one 20th-century work of at least intermediate difficulty) no later than the beginning of the junior year, or take four semesters of piano lessons at Colorado College. In the senior year, majors must take the Graduate Record Examination Advanced Test in Music and a comprehensive examination given by the department; majors with an emphasis in Ethnomusicology must complete a senior thesis (which may be taken in conjunction with 401, 402) in lieu of the comprehensive examination. Music majors who plan to satisfy state teaching licensure requirements should consult with their advisers as early as possible in their college career.

During the year the department will sponsor a series of performances by faculty and student ensembles and soloists as well as extended visits by distinguished visiting artists. Music majors will be expected to take advantage of these opportunities to broaden their understanding of the problems of concert work, and to gain a deeper understanding of performance and literature.

Music Theory and History

There are no prerequisites for 100- and 200- courses.

101-Introduction to Music. Basic materials, forms styles, and aesthetics. Guided listening to masterpieces of music literature. (No credit if taken after 150.) 1 unit - Agee, S. Scott.

103-Fundamentals. A course designed to develop an understanding of the basic elements and the structure of music through analysis and exercises in writing. The course will cover the rudiments of music theory involving melody, rhythm and harmony. Emphasis will be on the notation of rhythm and meter, key signatures, scales, structure of intervals and the construction and connection of basic triads and chords. A course designed to assist students planning to take Music Theory I or for the student interested in gaining knowledge of the basic materials used in the notation of music. 1 unit - Brink.

104-World Music. Surveys the musical cultures of the world in their social, historical, and theoretical contexts; develops comprehension of the essential philosophies and aesthetics of the musics studied and the ability to identify, describe, and discuss various musical styles, compositional forms, and techniques through listening and performance exercises; emphasizes an interdisciplinary approach. (Also listed as American-Ethnic Studies 104 and Anthropology 104.) (Meets the Alternative Perspectives: B requirement.) 1 unit - Department, Levine.

150-Music in Western Culture. For the non-music major. This course will examine the sociocultural influences on music from antiquity to modern times. The music of each period will be examined in terms of its stylistic characteristics, its performance practices and its function within the society. Selected genres, composers and musical form will be studied through directed listening sessions. Special attention will be given to the aesthetic ideas that shaped the music of each period. No credit if taken after 101. (Meets the Alternative Perspectives: A requirement.) 2 units - Brink, M. Grace.

201-American Music. A survey from the time of the Pilgrims to that of Rock and Roll; an examination of the so-called "cultivated" and "vernacular" traditions with discussion of some uniquely American dichotomies such as commerce and art, art in a democracy and