

Palisades	Steamboat Springs
Paonia	Sterling (Logan County)
Pueblo:	Sugar City
Centennial (District No. 1)	Telluride
Central (District No. 20)	Trinidad
Rifle (Union)	Victor
Rocky Ford	Walsenburg (Huerfano County)
Saguache (Saguache County)	Wheatridge
Salida	Wiley (Union)
Sargent (Consolidated)	Windsor
Silverton	Wray (Yuma County)
Simla (Union)	

## Requirements for Degrees\*

## GENERAL RULES

The credit unit in all courses is one hour a week for a semester. In courses continuing throughout the year, no credit is given for a semester's work except by vote of the Committee on Individual Courses and with the approval of the head of the department concerned. To be accredited as passing work, a course must be graded at least D—. No student will be allowed to take a degree from Colorado College who has not been a resident in the institution for at least his senior year. No credit is allowed for work done out of course or in absentia, except with the permission of the Committee on Individual Courses; such permission must be obtained in advance.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

In the Department of Arts and Sciences, only one degree is given, that of Bachelor of Arts. To secure this the student is required to complete a course of study consisting of (1) certain prescribed studies, (2) a specified number of hours in a major subject, (3) enough free electives to bring his work up to the total requirement of 120 hours of scholastic work, making an average of 15 hours a week throughout the four years. In addition he is further required to complete 6 hours' work in physical education, (pp. 87-88), and also to secure credit for chapel attendance. To satisfy the requirements for the degree of Bachelor of Arts, a student must obtain a grade of C— or above, in at least 90 of the 120 hours counted towards the degree. It is recommended that students who are planning to work their way, in large part, through College, take five years for their course.

## I. REQUIRED SUBJECTS

*Economics, History, or Political Science*—Six hours in one of these subjects should be completed by the end of the sophomore year.

*English*—English 1; freshman year, 6 hours. English 2; first semester of sophomore year, 3 hours. A course to be selected from English 4, 9, 12, 13, 14, 18, 19, 20, 26, 36, 39, 40, 41a, 41b, 45, and 47, and to be completed by the end of the junior year, 3 hours.

*Foreign Language*—Twelve hours in foreign languages should be completed by the end of the sophomore year, not more than six hours of which may be a beginning course.

*Mathematics*—Mathematics 1; first semester, freshman year, 3 hours. Mathematics 3; second semester, freshman year, 3 hours. Mathematics 2; first semester, sophomore year, 2 hours. Students offering solid geometry for admission are not required to take mathematics 2.

\* For special regulations regarding the Bachelor's degree with honors, see pp. 43-44.

*Philosophy*—Philosophy 1 and 2 or Psychology 1, 6 hours, should be completed by the end of the junior year.

*Physical Education*—Freshman year, 3 hours a week, credit 1 hour each semester. Sophomore and junior years, 2 hours a week, credit 1 hour each semester.

*Science*—Six hours in either biology, chemistry, physics, or geology should be completed by the end of the freshman year.

*Chapel*—One credit for each semester of attendance at Colorado College.

II. REQUIREMENTS ARRANGED BY YEARS

FRESHMAN YEAR

First Semester	Credit Hours	Second Semester	Credit Hours
English 1 .....	3	English 1 .....	3
*Foreign Language .....	3	Foreign Language .....	3
Mathematics 1 .....	3	Mathematics 3 .....	3
Science .....	3	Science .....	3
Elective .....	3	Elective .....	3
Physical Education .....	1	Physical Education .....	1
	16		16

SOPHOMORE YEAR

First Semester	Credit Hours	Second Semester	Credit Hours
Economics, History, or Political Science .....	3	Economics, History, or Political Science .....	3
English 2 .....	3	English (see above p. 33) .....	3
Foreign Language .....	3	Foreign Language .....	3
Mathematics 2 .....	2	Phil. 2 or Psych. 1 .....	3
Phil. 1 or Psych. 1 .....	3	Elective .....	3
Physical Education .....	1	Physical Education .....	1
	16		16

JUNIOR YEAR

First Semester	Credit Hours	Second Semester	Credit Hours
Philosophy 1, or Psychology 1 (If requirement is not completed in Sophomore year) .....	3	Philosophy 2, or Psychology 1 (If requirement is not completed in Sophomore year) .....	3
Elective .....	12	English, unless completed in sophomore year .....	3
Physical Education .....	1	Elective .....	9
	16	Physical Education .....	1
			16

\* If the student does not offer two years of Latin for entrance, he must elect Latin

First Semester	SENIOR YEAR	
	Credit Hours	Second Semester
Elective .....	15	Elective .....
	15	15

MAJOR SUBJECT

In addition to the prescribed subjects listed above, each student shall elect a major subject, before the end of the sophomore year. The professor in charge of the major subject will act as the student's adviser, and will have authority, with the Dean, to require the completion of work amounting to thirty hours in the major subject, or in the major subject and in such minor subjects as he shall consider necessary, or in collateral work. Mention of the major subject will be made in the diploma. No work done in Colorado College will be counted toward the completion of a major subject if the grade is below C—.

Any one of the following may be selected by the student as his major subject: (1) Art; (2) Music; (3) Biology; (4) Chemistry; (5) Economics; (6) Education; (7) English; (8) Geology; (9) Greek; (10) History; (11) Latin; (12) Mathematics; (13) Philosophy; (14) Physics; (15) Political Science; (16) Psychology; (17) Romance Languages.

All courses except English 1, French 1, German 1, Mathematics 2, Spanish 1, and Physics 1 and 2, may be counted as part of the requisite thirty hours.

Petitions to change the major subject will be granted only when approved by the professors in charge of both the old and the new subjects; and the student will be held to all the requirements of the new major subject. In no case may the major subject be changed later than the beginning of the senior year.

ELECTIVES

The student shall elect, in addition to the prescribed subjects and the major subject, a sufficient number of courses to bring the total amount of his College work up to 120 hours (in addition to six hours of physical education and credit for chapel attendance).

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS IN BUSINESS ADMINISTRATION AND BANKING

The four years' course leading to the degree of Bachelor of Arts in Business Administration and Banking is designed to offer a thorough training in those branches of knowledge fundamental to business, using that term in its broadest sense. It is the aim of the Judson M. Bemis Department of Business Administration and Banking to emphasize those fundamental facts and principles of business which are necessary to its administration but which are difficult or impossible to acquire in the ordinary routine of work in a complex business organization. The aim is,

lives and works of the authors. Second semester, 3 hours. Given in 1926-1927 and alternate years.—MR. C. C. MIEROW.

8. *A Course Designed for Teachers*—Careful grammatical review; advanced prose composition; the intensive study of selected passages from Caesar and Cicero. Second semester, 3 hours.—MR. C. C. MIEROW.
  11. *Ovid, Selected Works*—With collateral readings on mythology. First semester, 3 hours. Given in 1926-1927 and alternate years.—MR. C. C. MIEROW.
  12. *The Hannibalic War*—A study of the Latin sources; assigned readings in English. Second semester, 3 hours. Given in 1925-1926 and alternate years.—MR. C. C. MIEROW.
  13. *Latin Literature of the Republic*—Selections from representative authors; lectures and collateral reading. First semester. Given in 1926-1927 and alternate years.—MR. C. C. MIEROW.
  14. *Tacitus, Annals and Histories*—Lectures on the author's life, historical method, and style. Second semester, 3 hours. Given in 1926-1927 and alternate years.—MR. C. C. MIEROW.
  15. *The Private Life of the Romans*—The reading of illustrative extracts in Latin; the discussion of papers prepared by members of the class; occasional lectures. Second semester, 3 hours. Given in 1926-1927 and alternate years.—MR. C. C. MIEROW.
  30. *An Introduction to Latin Inscriptions*—A course in epigraphy with practical exercises in the reading and interpretation of important inscriptions. Open to advanced undergraduate and graduate students. First semester, 3 hours. Given in 1925-1926.—MR. C. C. MIEROW.
  40. *An Introduction to Latin Manuscripts*—A course in paleography; the material and form of ancient books, the various hands, exercises in deciphering and collating manuscripts. Open to advanced undergraduate and graduate students. Second semester, 3 hours. Given in 1925-1926.—MR. C. C. MIEROW.
- Roman History* (History 8)—A general survey of Roman political and literary history; one lecture and one recitation each week; occasional illustration with lantern slides. Second semester, 2 hours.—MR. HAMBLIN.

#### LIBRARY SCIENCE

1. *Introduction*—An elementary course to give the students a general idea of the arrangement, classification, and general resources of the library, and a familiarity with the card catalog, reference books, and indexes, to help in the preparation of their other college work. Second semester, lecture, 1 hour; laboratory, 4 hours; credit, 2 hours.

#### MATHEMATICS

PROFESSOR SISAM, PROFESSOR ALBRIGHT, PROFESSOR LOVITT, and MR. WAPPLE  
**MAJOR REQUIREMENTS**—For a major in mathematics, the student must secure a passing grade in Mathematics 4, 5, 6, and two of the

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courses 8 to 14 inclusive. He must secure a grade of C— or higher in thirty hours chosen from the following courses: Mathematics (any course, except Mathematics 2), Astronomy 1, Business 12, Graphics 2 (three hours toward major), and Physics 3 and 4.

1. *Algebra*—Graphs; variation; linear equations, theory of exponents, quadratic equations, simultaneous quadratics, progressions, permutations and combinations, theory of equation. Required of all freshmen, except those in engineering or who elect Mathematics 1e. First semester, 3 hours.—MR. SISAM, MR. ALBRIGHT, MR. LOVITT, MR. WAPPLE.
  - 1e. *Algebra*—This course covers the work of Mathematics 1, with greater emphasis on the applications and the solution of problems. Required of freshmen in engineering. First semester, 4 hours.—MR. WAPPLE.
  2. *Solid and Spherical Geometry*—Planes and lines in space, polyhedra, the cylinder, cone, and sphere, spherical triangles. Required of sophomores who do not present solid geometry for entrance. Either semester, 2 hours.—MR. LOVITT, MR. WAPPLE.
  3. *Plane Trigonometry*—Logarithms, the functions of one and two angles, inverse functions, the solution of triangles, applications. Required of all freshmen except those in business administration and banking, in engineering, and those who elect Mathematics 3e. Second semester, 3 hours.—MR. SISAM, MR. ALBRIGHT, MR. LOVITT, MR. WAPPLE.
  - 3e. *Plane and Spherical Trigonometry*—This course covers the work of Mathematics 3 and also an introduction to spherical trigonometry. Required of freshmen in engineering. Second semester, 4 hours.—MR. WAPPLE.
- Mathematical Theory of Investments* (Business 12)—Prerequisite, Mathematics 1. Logarithms, simple and compound interest, annuities, amortization, valuation of bonds, sinking funds and depreciation. Required of freshmen in business administration and banking. Second semester, 3 hours.—MR. ALBRIGHT.
4. *Analytic Geometry* (Elementary)—Prerequisite, Mathematics 1 or 1e and 3 or 3e. Plane loci of the first and second orders, higher plane curves. To secure credit in this course, students must also complete Mathematics 5. Required of sophomores in engineering. First semester, 3 hours.—MR. SISAM.
  5. *Analytic Geometry* (More Advanced)—Prerequisite, Mathematics 4. A more thorough study of plane loci; solid analytic geometry. Required of sophomores in engineering. Second semester, 2 hours.—MR. SISAM.
  6. *Calculus, Differential and Integral*—Prerequisite, Mathematics 4 or registration therein. The theory and technique of differentiation and integration; applications. Required of sophomores in engineering. First semester, 3 hours. Second semester, 4 hours.—MR. LOVITT.

7. *Teachers' Course*—Open only to seniors. A study of the history of mathematics and of the methods and aims of teaching mathematics in the secondary schools. One semester, 2 hours.—MR. SISAM.
- 8.\* *Projective Geometry*—The projective relationships between primitive forms; the projective properties of forms of second order. One semester, 3 hours.—MR. SISAM.
- 9.\* *Theory of Equations*—Solution of cubic and quartic equations; properties of an algebraic equation in one unknown. One semester, 3 hours.—MR. SISAM.
- 10.\* *Differential Equations*—Methods for the solution of ordinary and partial differential equations. Each semester, 2 or 3 hours.—MR. SISAM.
12. *Mechanics*—Prerequisite, Mathematics 6. Concurrent and non-current forces, centers of gravity, moments of inertia, flexible cords, motion of a particle, work and energy, friction, impact, dynamics of rigid bodies, applications to physics and engineering. Each semester, 3 hours.—MR. ALBRIGHT.
- 13.\* *Vector Analysis*—One semester, 3 hours.—MR. SISAM.
- 14.\* *Solid Analytic Geometry*—Equations of the plane and right line in space, quadric surfaces, special surfaces of higher order. One semester, 3 hours.—MR. SISAM.
20. *Statistical Methods*—Graphs and their interpretation, comparison by graphs, means, measures of dispersion, correlation. First semester, 3 hours.—MR. LOVITT.
21. *Statistical Methods*—Finite differences, interpolation, moments, curve fitting, correlation, Lexis series, Poisson exponential. Second semester, 3 hours.—MR. LOVITT.

\*Of Courses 8, 9, 10, 13, and 14, only two are usually given in any one year. Admission to these courses is by the consent of the instructor.

Note—For a course in elementary surveying, see Civil Engineering 1.

### MUSIC

DEAN HALE

(For complete description of courses see under School of Music, pp. 96-100)

**MAJOR REQUIREMENTS**—Of Pianoforte students:—Music 1, 2, 3, each 8 hours; Music 4, 2 hours; Music 9 (Solfege), 2 hours; Art 6, 2 hours. The requirements for other students are similar. The pursuit of the technique is long and arduous; it can scarcely be undertaken too early. In particular, intending students should be prepared to begin Music 2 not later than at the beginning of junior year, and as much earlier as possible. Music 2a should be done here or with accredited teachers,—in all cases the work must be thorough, scholarly and musical. The music major solves the problem of College music study. Liberal Arts students have, to their regret, been forced to forego music for want of time and energy, for sound musical training cannot be acquired on the side. Often this has been true when music, for accomplishment or livelihood has been their highest aspiration. Such students will be

interested to know that both the A. B. degree and the musical cultivation are offered them in a practicable scheme—a scheme the fruit of which is just that liberal culture which is now demanded of the musician as of any other claimant to education or to the dignity of a teacher.

1. *General Musical Culture*—Outlines of musical notation, nomenclature and acoustics; musical structure, formal, harmonic, and contrapuntal; the symphony, the orchestra, and the orchestral score; the masterpieces of oratorio, opera, concerto, and other large forms; musical history, biography, and criticism. This course is designed to appeal to all classes of students; in particular, through both concrete and imaginative treatment of the subject, to those who, for various reasons, cannot acquire the musical technique, but would be glad to give music a place in their culture scheme, to qualify themselves for intelligent criticism and appreciation of the art. Each semester, 2 hours. Tuition, \$10.00 each semester. Free to music students.
3. *Composition*, including original work, counterpoint, harmony, form, ear-training.

### PHILOSOPHY AND EDUCATION

PROFESSOR DAVIES, PROFESSOR HERSHEY, ASSISTANT PROFESSOR JORDAN,  
AND ASSISTANTS

The work in this department is arranged to meet the needs (1) of those students who wish to fulfill the minimum philosophy requirement for graduation; (2) of those who expect to qualify for the State Teacher's Certificate; (3) of those who desire to do their major work in the Department; and (4) of candidates for the degree of Master of Arts. To meet the needs of these various groups, the courses have been arranged in three main divisions: Philosophy, Psychology, and Education.

The minimum requirements for graduation may be met by completing either Psychology 1, or Philosophy 1 and 2, before the senior year. Graduates of Colorado College may secure the State Teacher's Certificate if they have satisfactorily completed 16 hours' work in education, distributed among certain groups of courses, in addition to 4 hours of practice teaching. Students who wish to qualify for this certificate are advised to consult with the Department, not later than the beginning of the junior year, before making an election. Students desiring to take their major work in the Department may elect their courses of study in either of the three main divisions of the Department; but in any case Psychology 1 will be required of all. In order that the major work of students may be both systematic and progressive, it is desirable that Psychology 1 be elected in the sophomore year. Candidates for the degree of Master of Arts will be required to do their work in either philosophy, psychology, or education, but in no case will Psychology 1 be counted toward the degree.

Under certain conditions the following courses, listed in this catalog, will be credited by the Department toward the fulfillment of the