

CALIFORNIA BULLETIN

STATE TEACHERS COLLEGE
CALIFORNIA, PA



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The California Bulletin

Volume XLVIII

JANUARY 1938

Number 1

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1938 SUMMER SESSION—June 20 to July 30

REGISTRATION—June 20; CLASSES BEGIN—June 21

POST SESSION—August 1 to August 20

REGISTRATION—August 1; CLASSES BEGIN—August 1

The 1938 Summer Session will be six weeks in length. The Post Session will be three weeks in length. The semester-hour load is limited to six credits in the regular session and three in the post session.

The College will offer courses which are required for a degree in Elementary, Secondary, and Industrial Arts Education. Required courses for certification in Special Education will be given. Courses are offered to validate a College Provisional Certificate as a permanent license to teach.

1938 CALENDAR

Alumni Day.....Saturday, May 21
Baccalaureate Sermon.....Sunday, May 22
Commencement.....Monday, May 23

Freshmen Examinations.....July 15 and September 13
Regular College Registration.....September 14

STATE TEACHERS COLLEGE, CALIFORNIA, PENNSYLVANIA

Robert M. Steele, President

Harry L. Kriner, Dean of Instruction

Thomas M. Gilland, Director Student Teaching

Lillian J. Conlon, Bursar

Lois Gillis, Registrar

Outstanding Characteristics Of California Summer Session

1. Classes do not meet on Saturday.
2. The students may attend three, six, or nine weeks.
3. Associations with students and faculty are enjoyable.
4. Organization of work is unique.
5. Work is practical and profitable.
6. The social advantages are pleasant.
7. The dormitories are cool and comfortable.
8. Cold drinking water is provided in dormitories.
9. Travel by automobile is convenient.
10. Excellent railroad service is available.
11. A large variety of courses is offered.
12. The faculty is well prepared.
13. The laboratories and class rooms are well equipped.
14. A vacation in July or August is possible.
15. All courses are modern and practical.
16. The recreational activities are varied.
17. The expenses are very low.
18. Swimming, picnics, dances, and plays are excellent.

THE STATE TEACHERS COLLEGE AT CALIFORNIA IS AN ACCREDITED
MEMBER OF THE AMERICAN ASSOCIATION OF TEACHERS COLLEGES
AND MEETS ALL STANDARDS ESTABLISHED BY THIS ASSOCIATION.

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SOCIAL AND RECREATIONAL FEATURES

The major portion of the afternoons will be free for a complete recreational program. Activities include tennis, mush ball, golf, swimming, archery, speed ball, deck tennis, shuffle-board, croquet, basketball, kick football, dancing, and hiking. Arrangements will be made for these activities or additional recreational games, and information or suggestions for the teaching of games, will be given to groups upon request. Some of the events are:

- Swimming Parties: Twice Weekly
- Summer Session Reception June 21
- Summer Session Dance—July 8
- Dormitory Party or Picnic each week
- College Women's Dinner—July 14
- Stag Steak Dinner—July 14
- Annual Athletic Round-up—June 30
- Tennis, Horse shoe, and Ping Pong Tournaments
- Mush Ball League

Student representatives will work out the details for the above program. The Social program will be under the direction of the Dean of Women and the Dean of Men. The recreational activities will be directed by the physical education instructors.

PURPOSES OF THE SUMMER SESSION

1. To enable teachers in service to renew Partial Elementary and State Standard Limited certificates.
2. To permit teachers in service to secure the Temporary Standard certificate or State Standard Limited certificate.
3. To offer work toward the completion of a degree in Education.
4. To aid students of the regular college year to make up deficiencies.
5. To complete the required work in less than the regulation time.
6. To offer the opportunity for self-improvement.
7. It is not the purpose to admit recent high school graduates. Students who have not previously attended a college are admitted only in September or January.

Admission to the summer session does not guarantee a place in the college enrollment for the regular semester.

STANDARD CERTIFICATE

Teachers who hold a Partial Elementary Certificate and who desire information as to the remaining courses required for the Temporary Standard certificate should write to the Teacher Division, Department of Public Instruction. TO AVOID DISAPPOINTMENT, NO OTHER ADVICE SHOULD BE TAKEN.

Those who do not hold a Partial Elementary certificate but are working for a Standard certificate can receive only a State Standard Limited. This certificate is valid for three years. It is secured by completing the first two years of work in an approved Elementary curriculum including at least six credits of student teaching. Many courses valid for renewing State Standard Limited certificates are offered in the summer session.

Students who enter college after January 1, 1937 are required to complete the first three years of work in an approved elementary curriculum in order to secure a State Standard Limited certificate.

GRADUATION

During the past year the demand for elementary teachers holding a college degree has greatly increased. Many school districts now require a college degree as the minimum academic preparation for all teachers. Thus it is to the advantage of all elementary teachers to complete the necessary work for a degree as soon as possible.

Students who desire to work toward the completion of a curriculum should consult the Dean of Instruction regarding the work to be completed. Evaluations cannot be made during the five-day period immediately before or following registration day.

Students who complete the four-year curriculum during the summer session will be required to return in May, 1939, for graduation exercises. Students expecting to complete a curriculum should check with the Registrar to make certain that all requirements have been met.

Students who are working toward the completion of a degree are requested to secure the regular catalogue for all details and requirements.

STUDENT TEACHING

Student teaching facilities will be available for both elementary and secondary students. This work is planned for teachers who have had satisfactory experience and who have previously attended this college. Arrangements for this work **MUST BE MADE IN PERSON BEFORE JUNE 1** with the Director of Student Teaching and the Dean of Instruction.

NEW CURRICULA

The regular catalogue outlines the course requirements for each curriculum and gives requirements for both admission and graduation. A copy of the catalogue will be mailed upon request. Each curriculum has been revised.

MAKING COLLEGE CERTIFICATE PERMANENT

Students who receive a college degree after completing a four-year curriculum must secure a College Provisional Certificate, which is issued by the department of Public Instruction, before they may teach in the public schools of Pennsylvania. This certificate is a license to teach for only three years and is different from the sheepskin or diploma issued at graduation. It indicates the subjects or the fields in which the holder is permitted to teach. **ONE REQUIREMENT TO MAKE THE COLLEGE PROVISIONAL CERTIFICATE A LIFE LICENSE TO TEACH IS THE COMPLETION OF SIX ADDITIONAL CREDITS**, three in education and three in the field for which the certificate is valid.

Courses described in this bulletin may be taken to validate a College Provisional Certificate for a life license to teach PROVIDED they were not taken to satisfy the degree requirements, and PROVIDED they apply to the proper field. Students who wish to pursue courses for this purpose should consult the Dean of Instruction.

ROOMS

A room should be reserved in advance by sending a registration deposit of \$10.00 with your first, second, and third choice of room. A room will not be reserved without a deposit. **IF A CLASS SCHEDULE ACCOMPANIES THIS DEPOSIT, COURSE RESERVATION WILL ALSO BE MADE.** The room reservation will be held until 3 o'clock on the regular Registration Day. At that time, the reservation will be withdrawn unless students notify the College by wire or phone of their intention to arrive at the college later. The deposit will not be returned unless application for return is received at least three weeks before the opening of the session.

LIVING OUTSIDE DORMITORIES

Women will not be permitted to room or board outside of the dormitories except in the home of parents, grandparents, brother or sister, uncle or aunt, unless special permission has been granted by the President. **ARRANGEMENTS MUST BE MADE WITH THE PRESIDENT BEFORE THE ROOMS ARE ENGAGED.** No student will be permitted to room in houses not approved by the Housing Committee. Any change of address must be approved by the Dean of Women prior to the change.

EXPENSES EFFECTIVE FOR SUMMER SESSION OF 1938

Contingent fee per credit (Minimum \$15).....	5.00
Student Activity fee.....	2.00
Out-of-state student (additional)	35.00
*Board, room and laundry.....	42.00
**Industrial Arts fee (additional)	6.00
Degree fee (graduates of four-year curriculum only)	5.00

A detailed statement concerning Fees, Deposits, and Repayments may be found in the regular catalogue.

*The cost for the post session will be \$21.00

**Additional industrial arts fee will be \$3 for the post session.

SCHEDULES SHOULD BE MADE IN ADVANCE

Students may save considerable time on registration day by paying a \$10.00 registration fee in advance and requesting a schedule to be made. SCHEDULES WILL NOT BE MADE IN ADVANCE UNLESS THIS FEE IS PAID. Only one reservation fee is necessary where rooms are reserved. Classes will be closed when the maximum number for good work is reached. A schedule made out in advance will guarantee a place in the class.

A student should decide as early as possible which courses he desires for the summer session.

Make checks payable to State Teachers College and send proposed schedule, registration fee, and request for room reservation to Registrar, State Teachers College, California, Pennsylvania.

FACTS TO OBSERVE IN MAKING A CHOICE OF COURSES

In the selection of courses students should keep in mind their particular needs as to type of certificate, course requirements, means of travel and the desire to attend the regular session, the post session, or both. In case of conflicts, students should consult the Dean of Instruction. Classes will be closed when the maximum enrollment for good work is reached. Courses in which there are fewer than ten students enrolled will not be given. The assignment of instructors to the various courses will be changed only when absolutely necessary.

The required courses for each curriculum are published in the regular catalogue. Students who wish to learn the subjects they need to complete a curriculum should consult the regular catalogue which may be secured at the General Office. In case of any question relative to the proper course needed, the Dean of Instruction should be consulted.

DESCRIPTION OF COURSES

- (1) Classes do not meet on Saturday.
 (2) Persons not finding courses they desire should write to the Dean of Instruction requesting those courses. Courses not listed will be given if the demand justifies forming a class either for the regular or the post session.

ART

- Art (1)** Leacock
 2 credits Daily 7:30—9:00 Room D102
 The purpose of this course is to acquaint students with various media; and to give practice in drawing, lettering, poster making, creative designing, and the use of color.
- Art (2)** Leacock
 1½ credits M.T.Th.F. 7:30—9:00 Room D102
 This course is designed to provide actual experience in the selection and development of problems suitable for elementary art education: paper and cardboard construction, modeling, and carving. Emphasis is placed upon the integration of art with other elementary school subjects.
- Art Crafts (1)** Leacock
 2 credits Daily 9:00—10:30 Room D102
 This elementary course stresses the design, manipulation and sources of various materials suited to handwork. It includes projects in wood, leather, metal, cardboard covering, hand loom weaving, rake and spool knitting, and chair caning.
- Art Crafts (2)** Leacock
 2 credits Daily 10:30—12:00 Room D102
 This is a comprehensive course in two and four harness weaving. Instruction is given in the preparation of warp threads, warping various types of two and four-harness looms, and practice in weaving; selection and sources of equipment, pattern drafts, warp, tabby and yarns.

EDUCATION

- Diagnosis and Remedial Instruction in Reading** Bontrager
 3 credits Daily 8:00—11:30 Room D201 Post Session Only
 This course deals with the diagnosis and remedial treatment of difficulties in reading, arithmetic, language, spelling, and writing. More time is spent on reading than on other difficulties, with lectures and demonstrations by the instructor as well as reading and case studies by the students. The course is designed primarily for school principals, supervisors, and teachers in service, and is made practical.
- Educational Measurements** Neagley
 2 credits Daily 8:00—10:30 Room 205 Post Session Only
 A consideration of the simpler statistical measures with particular emphasis on their application to classroom work is given. The principles underlying the construction of valid, reliable objective tests are examined, and practice is given in the making of classroom tests in the various fields of subject matter. A study is made of representative standardized tests. Some attention is given to the vocabulary of measurement. The work is so organized that the need of either the elementary, the secondary, or the industrial arts teacher is met.
- Guidance** Bontrager
 2 credits M.T.Th.F. 10:30—12:00 Room D201
 This course shows many problems of consulting and guidance work in the junior and senior high schools. Educational, social, and vocational guidance are emphasized. Some attention is paid to the meaning, scope, and methods involved in the guidance movement.

4. **History of Education** Neagley
2 credits M.T.Th.F. 7:30—9:00 Room 205
The foundations of modern education and our present conception are shown by historical treatment. Emphasis is placed on the social, economic, political, and religious factors that have influenced elementary and secondary education.
5. **Mental Hygiene** Wilson
3 credits Daily 8:00—11:30 Room H103 Post Session Only
This course deals with the problems of personality development. Modern inventories for personality analysis are used, and guidance is given for the improvement of certain traits. Each student has an opportunity to analyze his own personality, and to apply adjustment principles to school problems.
6. **Mental Testing** Wilson
3 credits Daily 12:00—1:30 Room H103
Actual experiences will be given in the technique for individual testing, technique in case studies, and the application of the processes involved in mental hygiene. The course will be adapted to the specific needs of the class, especially to the fields in which the students are working.
7. **Philosophy of Education** Neagley
2 credits M.T.Th.F. 9:00—10:30 Room 205
The place of education in various well-known philosophies, the content of various educational philosophies, and the relation of former college courses to these are studied. Each student is expected to formulate his own creed and belief of what constitutes modern education.
8. **Place and Purpose of Education in the Social Order** Neagley
2 credits M.W.Th.F. 12:00—1:30 Room 205
This course deals primarily with the public school as a social institution. The major problems are: (1) how the school has come to hold a place of influence in society; (2) to examine the forces and agencies which determine the progress and direction of the school program; (3) to evaluate the place of the teacher in modern society; (4) to show the value of educational agencies outside of the public schools.
9. **Problems of Secondary Education**
3 credits Daily 7:30—9:00 Room H102
This course deals with the development, organization and problems of secondary education. It emphasizes the special functions of the Junior High School. Much time is given to admission requirements, ability grouping, program of studies, departmentalization, plans of promotion.
10. **Psychology (1)** Kerstetter
3 credits Daily 7:30—9:00 Room 111
This course considers the human body as a responding mechanism, subject to laws of cause and effect. It is designed to help students in understanding fundamental principles, and a vocabulary essential to further study of psychology. Experiments will be used for clarifying principles and for familiarizing students with psychological methods. Applications of psychological principles are made to human behavior in relation to social institutions, vocations, and everyday problems.
11. **Psychology (2)** Kerstetter
3 credits Daily 12:00—1:30 Room 111
This course provides experience in observation and discussion of the principles involved in the learning process. Problems deal with motivation of learning, learning activities, intelligence testing, pupil control, case studies, and individualized instruction. There are class experiments to clarify and to apply to each of the problems of study.
12. **Psychology of the Atypical Child** Wilson
2 or 3 credits Daily 9:00—10:30 Room H103
This is a course for those who desire certification for teaching special classes. It deals with characteristics and classifications of mentally handicapped children. Methods used in the study of abilities and characteristics of such children are demonstrated, and observation and laboratory work are used as much as possible.

13. **Public Relations** Gilland
3 credits Daily 7:30—9:00 Room H21
Designed to consider ways and means of providing for closer articulation of all community agencies in the work of the schools. Attention will be given to the use of existing organizations within and without the school. Plans will be formulated for the organization of new agencies both within and without the school. Each student will be required to survey some specific community and prepare a tentative program of public relations for the community surveyed.
14. **Reading Clinic Procedures** Bontrager
3 credits Daily 9:00—10:30 Room D201
This course is designed to familiarize students with techniques of diagnosing reading difficulties, and of determining appropriate remedial treatment. Opportunity is given for observing and participating in procedures in the reading clinic.
15. **School Law** Gilland
1 credit M.W. 9:00—10:30 Room H21
This course presents the most fundamental state and national laws which are directly applicable to our public school system. The practical rather than the technical is emphasized.
16. **Special Class Methods** Wilson
2 credits Daily 7:30—9:00 Room H103
Methods of handling orthogenic backward children, classroom organization, articulation with the regular school program, and purposes of special classes are discussed. At least one period of classroom observation per day, followed by conferences will be required.
17. **Teaching of Reading** Bontrager
3 credits Daily 7:30—9:00 Room D201
To acquaint students with reading objectives, activities, and material for the elementary grades, and to lead them to realize the place and function of reading in a school program designed to meet present social conditions are the main purposes of this course. It affords an opportunity to meet the individual needs of each student.
18. **Technique of Teaching**
2 credits Daily 10:30—12:00 Room H21
This work deals with lesson planning, assignments, unit planning, directed study, diagnosis and remedial teaching, drill, and questioning. It is adapted to the individual needs of the student.
19. **Visual Education** Kerstetter
1, 2, or 3 credits Daily 9:00— Room 111
This is a complete course which considers the psychological principles underlying "Visual or Other Sensory Aids" and also studies the collecting and assembling of suitable teaching material. Arrangements must be made in advance concerning the number of credits desired; assignments are made accordingly.
- ENGLISH**
1. **Advanced Composition** Hughey
3 credits Daily 12:00—1:30 Room 206
Current periodical literature is used as a source of contact with contemporary thought and with the methods and art of journalistic and literary writing. Such literary forms as are not touched upon in other courses in composition are studied here, and some writing is attempted in these forms according to the interest and talent of the individual writer.
2. **Children's Literature** Curry
3 credits Daily 9:00—10:30 Room H101
To present standards for selecting literature for children, to give suggestions for teaching literature to children, to acquaint the student with new material in this field, and to enable him to evaluate this material in the light of established standards and contemporary trends are the aims of this course.

3. **English (1), (2)** Curry
3 credits Daily 7:30—9:00 Room H101
The fundamentals underlying both spoken and written English and their application in paragraph writing are stressed in this course. English 2 further emphasizes fundamentals and their application in theme development; the technique of writing term papers is included. Attention will be given to the individual needs of the student in Freshman English. Ten lessons in the use of the library are supplement in English 1.
4. **Journalism** Hughey
2 credits M.T.Th.F. 9:00—10:30 Room 206
The course gives the prospective adviser of a school publication theoretical knowledge and practical experience in production and sponsorship. It provides practical experience on college publications within the limits of the individual student's interest and ability. Limited attention is also given to contacts between commercial journalism and the teacher.
5. **Literature (1)** Hughey
3 credits Daily 7:30—9:00 Room 206
This is a survey of English literature which gives the student the background necessary for the enrichment of his ability to appreciate literature.
6. **Literature (2)** Keller
3 credits Daily 7:30—9:00 Room 116 Regular Session
3 credits Daily 8:00—11:30 Room 116 Post Session
This survey of American Literature compares the artistic standards and lines of thought of the present with those of the past. This includes Pennsylvania's contribution. The aim is to give a fundamental knowledge and to develop appreciation in this field.
7. **Modern Drama** Curry
3 credits Daily 10:30—12:00 Room H101
This course is a study of modern drama beginning with the plays of Ibsen. It stresses the art and thought of the representative writers for the stage: British, continental, and American. Special emphasis is given to Ibsen, Shaw, and O'Neill.
8. **Phonetics** Mase
2 credits Daily 10:30—11:40 Room 303
A scientific study of sounds provides a basis for correct sound formations. This course should improve speech habits of students and give them the basic material for further courses in Speech Correction or Dramatics.
9. **Short Story** Keller
3 credits Daily 9:00—10:30 Room 116
This is an introduction to the French, Russian, English, and American short story, with particular emphasis on the American. Representative stories are studied in class, and others read outside. Attention is given to evaluating the merit of stories and compiling appropriate lists for teaching. Those interested in story writing are permitted to substitute an original story for part of the supplementary reading.
10. **Speech Clinic Procedures** Mase
3 credits Daily 8:00—11:30 Room 303
The student has an opportunity to diagnose, study, and follow through a procedure of correction with different types of speech disorders, all under the close supervision of the clinician. The student will become familiar with the use and application of scientific equipment, such as the recording machine, kymograph, and audiometer.
11. **Speech Pathology** Mase
3 credits Daily 9:00—10:30 Room 303
This course acquaints the student with the anatomy and physiology of the speech mechanism, particular emphasis being placed on the respiratory organs, larynx, resonators, and articulators. It further acquaints the student with causes, symptoms, nature, and management of all types of speech disorders, exercises and procedure to follow.
12. **Speech Problems** Mase
2 credits Daily 7:30—9:00 Room 303
This is a survey of the field of Speech Correction, acquainting the student with literature on the subject and particularly stressing the matter of treatment of minor speech disorders.

13. **Teaching of English** Keller
3 credits Daily 10:30—12:00 Room 116
Among the problems studied are the following: the making of an English teacher, the curriculum, motivating composition teaching, the meaning of functional grammar, time given to various classics, proportion of time to be given to older and more recent literature, the teaching of wholes or parts, and supplementary reading and book reports.
14. **World Literature** Hughey
3 credits Daily 8:00—11:30 Room 206 Post Session Only
The material consists of selections from the literatures of continental Europe and the Orient, chronologically presented in English translation. The purpose is to examine the author's thoughts rather than his style, and to trace consistent traditions in literature and life from ancient times to the present. Basic problems in the history of literary criticism and appreciation are also outlined.

FOREIGN LANGUAGES

Students interested in Latin or French courses should make inquiry concerning how their individual needs may be met.

1. **French** Carroll
3 credits Daily 9:00—10:30 Room H16
A review of French grammar, reading, composition, and dictation. Emphasis is placed on French conversation in the class room. Prerequisite: two years of high school French or the equivalent.
2. **Latin** Carroll
3 credits Daily 7:30—9:00 Room H16
Intended for students who have had three years of high-school Latin. Attention will be given to sight reading, translation, and the principles of Latin syntax.
3. **Teaching of Languages** Carroll
3 credits Daily 12:00—1:30 Room H16
The ways of teaching various languages by the direct method will be emphasized. Techniques, materials, and useful suggestions for the high-school teacher will be presented and demonstrated. Acceptable as part of the requirement for certification in any language.

GEOGRAPHY

1. **Commercial and Industrial Geography** Staats
3 credits Field Course through the South S202 Post Session Only
This field study emphasizes the commercial and industrial aspects of the Ohio and Mississippi Valleys, the Gulf Coast, the Great Smoky Mountains, and the Tennessee Valley Authority. The group will travel by special bus, leaving California Tuesday, August 2 and returning Thursday, August 18. The day prior to and the day following the trip will be spent in classwork at the college. The itinerary covers approximately 3300 miles, and includes the commercial and industrial aspects of:
1. Livestock market and meat packing—Cincinnati.
 2. Tobacco production, marketing and manufacturing—Louisville, Kentucky area.
 3. Transportation on the Ohio and Mississippi Rivers—study along route and at Cincinnati, Louisville, Memphis and New Orleans.
 4. Cotton production and processing of the Memphis and surrounding area.
 5. Rice production of Arkansas.
 6. Ports of Mobile, Biloxi, Gulf Port and New Orleans.
 7. Sugar cane production, shrimp fishing, and muskrat farming of the Mississippi delta.
 8. Resort industry of Hot Springs, Gulf Coast and the Great Smoky Mountains.
 9. Bauxite mining of Arkansas.
 10. Water power development and flood control of the TVA.
- Reservations must be made on or before July 4, 1938. Full details concerning the course may be had by writing to the Dean of Instruction or by personal interview with the director of the course, Dr. J. Riley Staats.

2. Conservation of Natural Resources
3 credits Daily 7:30—9:00 Room S204 Harding

This course gives the student a broader concept of our natural resources. Major governmental projects, our minerals, water resources, plant resources, soil, and numerous other resources are studied. Teachers of Geography, Economics, and History find the contents of this course well suited to their needs.

3. Economic Geography
3 credits Daily 9:00—10:30 Room S204 Harding

This is a general course dealing with the economic commodities of various countries of the world from a regional viewpoint. An analysis of the economic principles and geographic factors of our modern environment is given careful consideration.

4. Geography of Europe
3 credits Field Course through Several Countries of Europe Harding

Room S204 Post Session Only

This course is to be a field study of the Continent of Europe and the British Isles. The group will travel by boat, bus and train through England, Holland, Germany, Switzerland, Belgium, and France. The study will be of a regional nature. Arrangements have been made for classwork on the boat going over and coming back. The following economic factors of each geographic region will be considered:

1. The relative importance of manufacturing.
2. The agricultural patterns.
3. Various means of transportation in each region.
4. Importance of fishing to the low countries of North Europe.
5. The agricultural development of the Baltic Plain.
6. Uses of mountain areas of Switzerland.
7. River traffic as illustrated along the lower Rhine.
8. Hoe culture of Flanders.
9. Dairying in Brittany.
10. A typical port city for liner trade.
11. A crossroads city as illustrated by Paris.

The group will leave New York on July 26 on the Europa and return September 4 on the Columbus. The cost of the whole trip is exceedingly low when one considers the distance traveled and the countries visited. For full information and for reservation write to the Dean of Instruction of the College or directly to Mr. G. E. Harding who will be in charge of the study.

5. Geography of Latin America
3 credits Daily 9:00—10:30 Room S202 Staats

A regional study is made of South America, Mexico, and Caribbean Lands. Special emphasis is given to regional differences and similarities. Latin American relations with other nations, especially the United States, are stressed.

6. Geography of the United States and Canada
3 credits Daily 10:30—12:00 Room S204 Harding

This is a regional study of the two countries. Special emphasis is given to the physical and economic conditions. Current issues are discussed.

7. Physiography
3 credits Daily 12:00—1:30 Room S202 Staats

This is a systematic study of land forms, their changes, and their influences on man. The content of this course is basic for the study of regional courses in geography.

8. Principles of Geography
3 credits Daily 7:30—9:00 Room S202 Staats

This course is organized to give a foundation for further geographic study. The units of earth relations, weather, climate, maps, land forms, inland bodies of water, oceans, soils, and vegetation are treated as bases for interpretation of earth regions. Special devices and methods are also emphasized.

HEALTH AND PHYSICAL EDUCATION

1. Personal Hygiene
3 credits Daily 7:30—9:00 Room H104 Steers

The purpose of this course is to arouse a sane and personal philosophy of health, bearing out the slogan, "Health in Education and Education in Health." It covers such items as growth and development, unity of mind and body, science and superstitions, sexology and reproduction, bones and muscles, blood and the circulation, food and nutrition, physical defects and deformities.

2. Physical Education (1), (2)
1 credit M.T.W.F. 10:30—12:00 Room HH Steers

Work in Eurhythmic, games, relays, and similar activities will be presented with specialization in several activities chosen by the class.

3. Teaching Health
2 credits M.T.Th.F. 9:00—10:30 Room H104 Steers

A course devoted to the health of the school child, emphasizing his growth development and training in wholesome health ideals, attitudes, and habits. Methods of presenting the material given in the new State Course of Study will be stressed.

INDUSTRIAL ARTS

Anyone interested in the course descriptions should write for the special Industrial Arts Bulletin

1. Industrial Arts for Special Ed. Classes (Fundamental Tool Operations)
2 credits Daily 9:00—10:30 Room IA

The selection, care, and use of tools which a teacher of Special or Orthogenic classes needs for instruction in wood and metal work will be stressed in this course.

2. Drawing and Design (1)
2 credits Daily 7:30—9:00 Industrial Arts Building

The use of drawing instruments, orthographic projection, sectional representation tracings, and blueprint making are emphasized.

3. Drawing and Design (2)
2 credits Daily 7:30—9:00 Industrial Arts Building

This includes practical problems in sheetmetal drafting. Work shop problems, such as arise in everyday practice, are presented.

4. Drawing and Design (3)
2 credits Daily 7:30—9:00 Room S300

This course presents the principles of design, and color as applied to a printing job.

5. Drawing and Design (4)
2 credits Daily 7:30—9:00 Industrial Arts Building

Special emphasis is given to machine design, tracing, blueprint making, and commercial drawing practice.

6. Drawing and Design (5)
2 credits Daily 7:30—9:00 Industrial Arts Building

This includes a complete set of drawings for bell, annunciator, burglar and fire alarms, detailed house wiring plans, including materials, fixtures, labor, and meter service entrance.

7. Drawing and Design (7)
2 credits Daily 7:30—9:00 Industrial Arts Building

Plans for the organization of instructional material in graphic form for all of the general shop units including wall charts, blackboard drawing, and blueprint making are given in this course.

8. **Shop (2) Sheet Metal**
4 credits Daily 10:30—2:30 Industrial Arts Building
This is an introductory course in sheet metal. Instruction is given in seaming, riveting, forming, and soldering. Projects suitable for junior and senior high school boys are worked out.
9. **Shop (3) Printing (1 or 2)**
4 credits Daily 9:00—12:00 Room S300
Elements of typography, setting straight matter, and simple display jobs as well as platen press work is offered in this first course.
10. **Shop (4), (8) Machine (1 or 2)**
4 credits Daily 9:00—12:00 Industrial Arts Building
This course deals with the machine tools and their operation including complete instructions on the engine lathe and in aluminum moulding.
11. **Shop (5) Electricity (1)**
4 credits Daily 9:00—12:00 Industrial Arts Building
The fundamental principles of electricity in theory and in practice including work in bell, annunciator, burglar and fire alarms, and various types of house wiring systems are studied.
12. **Shop (6) (7) Wood (2)**
4 credits Daily 1:00—4:00 Industrial Arts Building
This is the second course in woodwork. It includes advanced machine work, wood turning, the operation of spray painting and finishing equipment, and the organization of instructional material.
13. **Shop (9) Electricity (2)**
4 credits Daily 8:45—12:30 Industrial Arts Building
This course includes advanced theory and practice, motors, their construction and use; DC motor and generator installation and use; AC motor and generator installation, starting and use; building and rewinding simple motors; and projects for junior high schools.
14. **Shop (10) Art Metal**
4 credits Daily 1:00—4:00 Industrial Arts Building
Methods of applying the design to copper, brass, and pewter are taught in this course. Representative projects are: letter openers, book ends, and lanterns.
- Post Session courses will be offered according to the demand. A definite announcement will be made concerning this at the college during the week of July 19th.

MATHEMATICS

1. **Analytic Geometry** Salisbury
3 credits Daily 9:00—10:30 Room 105
This course stresses the development of meaning in the point, the line, and the plane; coordination as a means of picturing a mathematical function, a visual understanding of the various conics, ability to develop the formulas that usually go with the first course of analytics and their application to the same.
2. **Arithmetic (1)** Salisbury
3 credits Daily 7:30—9:00 Room 105
To acquaint the teacher with the history, philosophy, sociology, and psychology underlying the pedagogy of number learning is the aim of this course. Methods of teaching, number understanding, and processes are developed in harmony with the most dependable experimentation in this field.
3. **Arithmetic (2)** Salisbury
3 credits Daily 7:30—9:00 Room 105
The diagnosis and remedial teaching of arithmetic in the intermediate grades is presented in this course. The practical results of the recent scientific studies are utilized.

4. **College Algebra** Bernstorff
3 credits Daily 10:30—12:00 Room 105
This course extends the skills of secondary algebra to cover the ordinary phases of college algebra. The ideas of mathematical induction, development of ability to think in terms of abstract symbols, and seeing algebra as an integrating factor in all mathematics are included.
5. **College Trigonometry** Bernstorff
3 credits Daily 9:00—10:30 Room D102a
The stress in this course is on the application of knowledge of ratios through similarities making functions meaningful, the uses of algebra in the field of trigonometry, formula development and application, triangular solutions in all their phases, perfection of abilities in exponentials and logarithms and their application to problems.
6. **Statistics** Cunningham
3 credits Daily 12:00—1:30 Room 105
This course develops the ability to read with understanding tables of statistical matter, interpretation and creation of tables and graphs of statistical data, computation and interpretation of central tendencies and deviations, the application of the ordinary skills of statistics in the fields of physical and social science, psychology and education.

MUSIC

1. **Music (1)** Halstead
2 credits Daily 9:00—10:30 Room 209
Planned to prepare the regular grade teacher to teach her own music in the first three grades under supervision. It includes the study of suitable rote songs, the acquaintance with reading material, and oral and written ear training. The best practical methods known are discussed and used in presenting the material.
2. **Music (2)** Halstead
1½ credits M.T.Th.F. 7:30—9:00 Room 209
A continuation of Music (1), progressing into the more difficult and interesting material. A singing of two and three-part music is one of the accomplishments of this course. It is especially designed to prepare and assist the regular grade teacher to teach her own music under supervision in grades 4, 5, and 6.
3. **Music (3)** Halstead
2 credits M.T.W.F. 10:30—12:00 Room 209
An opportunity is given to listen to the best music in its different forms. Attention is given to the development of music through the ages along with the interesting information concerning the greatest composers and artists. Ways and means of developing appreciation are studied.

SCIENCE

1. **Application of Physics to Modern Life** Cunningham
3 credits Daily 8:00—11:30 Room S201-205 Post Session Only
The course is designed to show the significance and applications of the recent discoveries in physical science. This course treats such topics as: the atom, how one element is changed into another, radium, the radio, the photo-electric cell, X-rays, cosmic rays, and other topics now under wide discussion.
2. **Astronomy** Hurst
3 credits Daily 10:30—12:00 Room S102
Descriptive astronomy is given with the mathematical phases of the subject generally omitted. The various elements of the solar system, their physical characteristics and motions, the interesting phenomena of our galactic system, and those of extra-galactic space, together with study of constellations are the main considerations. Slides help materially in the work; a five-inch refractor and an eight-inch reflector are used.

3. **Biological Science (1)** Sutherland
3 credits Daily 7:30—9:00 Room S103
The fundamental principles and theories of general biology are presented in this course. It deals with the function of the cell, adjustment of the living organism to environment, the nervous system, and endocrine secretions. A seasonal survey of plant and animal life through a study of local forms is given. Students specializing in biological science do not take this course.
4. **Biological Science (2)** Sutherland
3 credits Daily 9:00—10:30 Room S103
This is a continuation of Biological Science (1) with additional study of heredity and evolution. Students specializing in biological science do not take this course.
5. **Botany (1), (2)** Hurst
3 credits Daily 9:00—10:30 Room S101-4
A study is made of plant biology with laboratory based upon the structure and function of the plant body parts of the angiosperms, the root, stem, leaf, bud, flower, seed, together with interesting variations of these. The evolution and economic importance of these plants are considered.
Complement of Botany (1). The course is based upon laboratory. The thallophytes, bryophytes, pteridophytes, and gymnosperms of the spermatophytes are the sources from which the subject material is drawn. The variations in structure and physiology and their meaning together with the economic importance and evolution of these plants are stressed.
6. **Chemistry (1), (2)** Sutherland
3 credits Daily 12:00—1:30 Room S2-3
The lectures and demonstrations deal with fundamental theories and laws of chemistry. Common non-metallic elements and their compounds are included. The laboratory experiments are designed to acquaint the student with the properties of the principal elements and their compounds.
This is a continuation of Chemistry 1. It includes the study of metals and their compounds and an introduction to carbon compounds.
7. **Physical Science (1)** Cunningham
3 credits Daily 9:00—10:30 Room S102
This is a survey presented from the standpoint of appreciation rather than the mastery of a group of facts. The aim is to make the student aware of the natural forces through the physical interpretation of everyday phenomena; and to show how the discoveries of science have changed our ways of living and thinking. The lecture-demonstration method is used. Material is largely selected from the fields of astronomy and physics. Students specializing in Physical Science do not take this course.
8. **Physical Science (2)** Hurst
3 credits Daily 7:30—9:00 Room S101
This is a continuation of Physical Science (1) selecting its material from the fields of chemistry and earth sciences. Students specializing in Physical Science do not take this course.
9. **Physics (1), (2)** Cunningham
3 credits Daily 7:30—9:00 Room S1-2
This is an introductory course in mechanics, sound, and heat. Fundamental principles and their applications are developed through lecture, demonstration, and individual laboratory work.
A continuation of Physics (1), deals with the phenomena and principles of magnetism, electricity, and light. Lectures and recitations are supplemented by individual laboratory work.
10. **Science (3) Nature Study** Walker
3 credits Room S103 and Camp Post Session Only
For the post session the groups will spend ten to twelve days at Cook's Forest, or a similar location. Before going to camp several days will be spent on the campus in preparation. After the work in camp has been completed several days will be spent at the college in summarizing the material. Those who are interested should write for details or make application in person to the Dean of Instruction as soon as possible since the number is limited.

11. **Zoology (1), (2)** Walker
3 credits Daily 10:30—12:00 Room S104
This is a course based upon lecture and laboratory work. The forms studied are selected from the protozoans, the invertebrates and the vertebrates, the frog being the typical form selected from the latter. The principles of the subject are stressed as these forms are studied, rather than the forms themselves.
This is a course based upon lecture and laboratory work. The material, typical forms not studied in Zoology (1), is selected from the various phyla of the invertebrates. The study of these forms is based upon morphology, physiology, and development with the implications of variations of these. The ecology and evolution of these forms, together with their places in the economy of man are also included.

SOCIAL STUDIES

1. **American Government** Montgomery
3 credits Daily 8:00—11:30 Room H20 Post Session Only
This course presents the basic principles of American government, the machinery through which it works, and some of its major problems. In the study of Federal, State, and local governments attention is given to current problems.
2. **Civic Education**
3 credits Daily 9:00—10:30 Room H102
The course gives the student a program for citizenship training in the elementary school which includes a basic outline for character education.
3. **Comparative Government** Montgomery
3 credits Daily 7:30—9:00 Room H20
This course stresses the principles and practical problems of government; studies the origin, development, form, and function of the state; and analyzes the relationship between the main unit of the government and its component parts.
4. **Economics** Montgomery
3 credits Daily 9:00—10:30 Room H20
The fundamental principles of economics including production, distribution, consumption, and exchange are studied. Present day problems of public finance, business organization, monetary situations, insurance, banking, and labor difficulties are considered.
5. **European History (2)** Gilmore
3 credits Daily 7:30—9:00 Room 202
This course deals with the political, social, and economic development of Europe from 1815 with emphasis on the features which have a definite bearing on world affairs today. It coordinates American and European developments.
6. **History of Civilization** Salisbury
3 credits Daily 12:00—1:30 Room 202
This course stresses the development of institutions liberalizing in character and valuable in present civilization. The political, economic, ethical, domestic, and religious types of culture are evaluated through an historical treatment. This course emphasizes large sweeping movements rather than individuals, nations, or dates.
7. **History of Latin America**
3 credits Daily 7:30—9:00 Room D102-A
A survey is made of Latin American history stressing the relationships with the United States and Europe. Their political, economic and social problems of the past several centuries are studied.
8. **Origin of Social Institutions**
3 credits Daily 12:00—1:30 Room H21
The Sociological background in the origin and development of social institutions such as the family and church are studied. A large portion of the course is devoted to problems of the family.

9. Pennsylvania History

3 credits Daily 10:30—12:00 Room 202

Gilmore

This course traces the growth of the Commonwealth showing the racial traits and characteristics. The transportation, industrial, social, and cultural contribution to the nation is emphasized. Pennsylvania's part in national movements is stressed. An opportunity to study local history is given.

10. Principles of Sociology

3 credits Daily 9:00—10:30 Room 301

This is a first course in Sociology and can be coordinated with Educational Sociology. It is a study of the various fundamental concepts, of the origin, development, form, and function of human relationships.

11. Social and Industrial United States History

3 credits Daily 12:00—1:30 Room H20

Montgomery

A study is made of the numerous social and economic forces which have been influential in developing American institutions. This background develops the ability of students to evaluate present-day problems. Consideration is given to some of the more recent agencies set up to solve our social and economic difficulties.

12. United States History (1)

3 credits Field Course Room 202 Post Session Only

Gilmore

This trip of approximately 2000 miles, at a very low cost to each student, will pass through Pennsylvania, New Jersey, Maryland, Virginia and Washington, D. C. The group will travel by bus leaving California, Tuesday, August 4, and returning Tuesday, August 16. The days prior to leaving and after returning will be spent in College class work in preparation for, and review and evaluation of, the events and scenes covered. The historical scenes visited and subjects studied are as follows:

1. Early systems of transportation and communication—Pennsylvania Canal System, turnpikes, river, and railroad.
2. Lines of immigration and paralleling lines of military campaigns in Pennsylvania and Virginia.
3. Various races and sects participating in colonization of territory covered.
4. Home territory of Amish, Mennonites, Moravians, Scotch Irish, Welsh, Quakers, and English with a study of character and influence.
5. Scenes of struggle in development of American Liberty in and around Philadelphia—Independence Hall, Carpenter Hall, Germantown, Valley Forge.
6. American defense program and Navy Yard, Naval Academy and background.
7. American Government and background suggested by four State Capitals and the National Capital.
8. Observation of historical and educational materials helpful for teaching in Harrisburg and Washington.
9. Colonial Life depicted in Williamsburg, Jamestown, museums at Harrisburg and Washington.
10. American Wars (French and Indian, Revolutionary, 1812, Civil) through scenes of battles culminating in Gettysburg.
11. Pennsylvania in the Civil War—Gettysburg and Chambersburg.
12. General study of topography of country as it bears upon the history.
13. Cultural life suggested by visiting educational institutions—five Pennsylvania and one Virginia Teachers College; also Universities and Colleges found on itinerary.
14. Birthplaces, homes, burial places of Washington, Jefferson, Monroe, Lee, Franklin, Stevens, and others.
15. Comparison of peoples, improvements, and conditions vital to understanding present problems.
16. Consideration of Indian relations indicated by forts, Susquehanna Valley, Braddocks Road.

The group will be limited to 30 students. Reservations must be made on or before June 24. Full details may be had by writing the Dean of Instruction or by personal interview with the director of the course, Mr. Arthur S. Gilmore.

13. United States History (2)

3 credits Daily 9:00—10:30 Room 202

Gilmore

A survey is given of the political history of the United States from 1865 to the present day. Special emphasis is placed upon present day relationships and underlying principles.

Comparative Anatomy

3 credits Daily 7:30-9:00 Room S102

This course is based on lecture and laboratory work. The forms studied in the laboratory dissection are selected from the vertebrates; they are the amphioxus, dogfish, necturus, and a mammal.

TIME SCHEDULE OF CLASSES

FIRST PERIOD 7:30-9:00

Anatomy	Walker	Room S102
Arithmetic (1)	Salisbury	Room 105
Arithmetic (2)	Salisbury	Room 105
Art (1)	Leacock	Room D102
Art (2)	Leacock	Room D102
Biological Science (1)	Sutherland	Room S205
Comparative Government	Montgomery	Room H20
Conservation of Natural Resources	Harding	Room S5
English (1), (2)	Curry	Room H101
European History (2)	Gilmore	Room 202
History of Education	Neagley	Room 205
History of Latin America	Neagley	Room D102-A
Latin	Carroll	Room H16
Literature (1)	Hughey	Room 206
Literature (2)	Keller	Room 116
Music (2)	Halstead	Room 209
Personal Hygiene	Steers	Room H104
Physical Science (2)	Hurst	Room S104
Physics (1), (2)	Cunningham	Room S201
Principles of Geography	Staats	Room S202
Problems of Secondary Education	Staats	Room H102
Psychology (1)	Kerstetter	Room 111
Public Relations	Gilland	Room H21
Special Class Methods	Wilson	Room H103
Speech Problems	Mase	Room 303
Teaching of Reading	Bontrager	Room D201

SECOND PERIOD 9:00-10:30

Analytic Geometry	Salisbury	Room 105
Art Crafts (1)	Leacock	Room D102
Biological Science (2)	Sutherland	Room S205
Botany	Hurst	Room S104-105
Children's Literature	Curry	Room H101
Civic Education	Curry	Room H102
College Trigonometry	Bernstorf	Room D102-A
Economics	Montgomery	Room H20
Economic Geography	Harding	Room S5
French	Carroll	Room H16
Geography of Latin America	Staats	Room S202
Industrial Arts for Special Education		
Classes (Fundamental Tool Operations)		Room IA
Journalism	Hughey	Room 206
Music (1)	Halstead	Room 209
Philosophy of Education	Neagley	Room 205
Physical Science (1)	Cunningham	Room S102
Principles of Sociology	Cunningham	Room 301
Reading Clinic Procedures	Bontrager	Room D201
School Law	Gilland	Room H21
Short Story	Keller	Room 116
Speech Pathology	Mase	Room 303
Teaching Health	Steers	Room H104
United States History (2)	Gilmore	Room 202
Visual Education	Kerstetter	Room 111

THIRD PERIOD 10:30-12:00

Art Crafts (2)
 Astronomy
 College Algebra
 Geography of United States and Canada
 Guidance
 Modern Drama
 Music (3)
 Pennsylvania History
 Phonetics
 Physical Education (1), (2)
 Psychology of the Atypical Child
 Teaching of English
 Technique of Teaching
 Zoology (1), (2)

Leacock Room D102
 Hurst Room S104
 Bernstorff Room 105
 Harding Room S5
 Bontrager Room D201
 Curry Room H101
 Halstead Room 209
 Gilmore Room 202
 Mase Room 303
 Steers Room HH
 Wilson Room H103
 Keller Room 116
 Walker Room H21
 Room S101-102

FOURTH PERIOD 12:00-1:30

Advanced Composition
 Chemistry (1), (2)
 History of Civilization
 Mental Testing
 Origin of Social Institutions
 Physiography
 Place and Purpose of Education in
 the Social Order
 Psychology (2)
 Social and Industrial United
 States History
 Statistics
 Teaching of Languages

Hughey Room 206
 Sutherland Room S204-205
 Salisbury Room 202
 Wilson Room H103
 Room H21
 Room S202
 Staats Room 205
 Kerstetter Room 111
 Neagley Room 205
 Kerstetter Room 111
 Montgomery Room H20
 Cunningham Room 105
 Carroll Room H16

INDUSTRIAL ARTS COURSES 7:30-9:00

Drawing and Design (1)
 Drawing and Design (2)
 Drawing and Design (3)
 Drawing and Design (4)
 Drawing and Design (5)
 Drawing and Design (7)

Ind. Arts Bldg.
 Ind. Arts Bldg.
 Room S300
 Ind. Arts Bldg.
 Ind. Arts Bldg.
 Ind. Arts Bldg.

8:45-12:30

Shop (9) Electricity (2)

Ind. Arts Bldg.

9:00-12:00

Shop (3) Print (1)
 Shop (4), (8) Machine (1), (2)
 Shop (5)—Electricity (1)

Room S306
 Ind. Arts Bldg.
 Ind. Arts Bldg.

10:30-2:30

Shop (2)—Sheet Metal

Ind. Arts Bldg.

1:00-4:00

Shop (6)—Wood (2)
 Shop (7)—Printing (2)
 Shop (10)—Art Metal

Ind. Arts Bldg.
 Room S306
 Ind. Arts Bldg.

LUNCH PERIOD—11:30-12:30**DINNER—5:30****POST SESSION****PERIOD 8:00-11:30**

American Government
 Application of Physics to
 Modern Life
 Commercial and Industrial
 Geography (Field Course)
 Diagnosis and Remedial
 Instruction in Reading
 Educational Measurements
 Geography of Europe (Field Course)
 Literature (2)
 Mental Hygiene
 Science (3)
 Speech Clinic Procedures
 United States History (1)
 (Field Course)
 World Literature

Montgomery Room H20
 Cunningham Room S201-205
 Staats Room S202
 Bontrager Room D201
 Neagley Room 205
 Harding Room S5
 Keller Room 116
 Wilson Room H103
 Walker Room S104 Camp
 Mase Room 303 & Camp
 Gilmore Room 202
 Hughey Room 206