Hawaii. University.

Bulletin.

V. XV no.1. Announcement of the dental hygiene program of Teachers College, 1935-1936.

no.2. Enjoy summer study in the University of Hawaii.

no.3. Hawaiian homesteading on Molokai, by Felix M. Keesing.

no.4. Summer session announcement, June 29-August 7, 1936.

no.5. Graduate study in the University of Hawaii.

no.6. Catalogue and announcement of courses, 1936-1937.

no.7. The Leiter international performance scale, by Russell G. Leiter ... with an appendix by Stanley D. Porteus.

no.8. Occasional papers, no.29. Geomorphic divisions of the island of Hawaii, by Chester K. Wentworth.

no.9. Occasional papers, no.30. The new civilization, a mingling of East and West, by Edwin R. Embree.

no.10. Announcement of the adult education division including afternoon, evening and Saturday courses, 1936-1937.

Bulletin.

UNIVERSITY OF HAWAII PUBLICATIONS

VOLUME XV NOVEMBER, 1935. NUMBER 1

October, 1936

ANNOUNCEMENT

of the

DENTAL HYGIENE PROGRAM

of

TEACHERS COLLEGE

1935-1936

The University of Hawaii Publications are published by the University of Hawaii, City and County of Honolulu, in the Territory of Hawaii, once in each of the following months: October, November, December, January, February, March, April, May, June, July. Application for admission to the mails as second-class matter pending.

CALENDAR

1935-1936

1935

June 4 ..... Twenty-fourth Annual Commencement ..... Tuesday
June 24 ..... Summer Session begins ..... Monday
August 2 ..... Summer Session closes ..... Friday
August 1 ....Last day for receiving applications for admission....Thursday
September 25-26 ..... "Freshman Week" ..... Wed.-Thurs.
September 27-28....Registration,Twenty-eighth Annual Session....Fri.-Sat.
September 30 ..... Instruction begins ..... Monday
November 11 ..... Armistice Day ..... Monday
November 28-30 ..... Thanksgiving Recess ..... Thurs.-Sat.
December 21 ..... Christmas Recess begins ..... Sat. noon

1936

January 6..... Work resumed ..... Monday
February 6..... Formal Class instruction, 1st .....
semester, closes ..... Thurs. night
February 10-15 ..... Mid-year examinations ..... Mon.-Sat.
February 20 ..... Registration, Second Semester ..... Thursday
February 22 ..... Washington's Birthday ..... Saturday
April 10-11 ..... Good Friday Recess ..... Fri.-Sat.
June 15-20 ..... Final Examinations ..... Mon.-Sat.
June 23 ..... Twenty-fifth Annual Commencement ..... Tuesday
June 29 ..... Summer Session begins ..... Monday
August 1....Last day for receiving applications for admission....Saturday
September 23-24 ..... "Freshman Week" ..... Wed.-Thurs.
September 25-26....Registration, Twenty-ninth Annual Session....Fri.-Sat.

ADMINISTRATIVE STAFF

David L. Crawford, LL.D., President of the University.

Benjamin O. Wist, M. A., Dean of Teachers College.

Agnes C. Bickerton, M. A., Instructor, Dental Hygiene.

ADVISORY COMMITTEE

Dean Benj. O. Wist, Chairman
Teachers College.

Dean Arthur R. Keller
College of Applied Science.

Dr. Charles R. Edmondson
College of Arts and Sciences.

Dr. Francis K. Sylva
Dental Advisor, Department of Public Instruction.

Mr. Theodore Rhea
Director, Division of Health Education, Department of Public Instruction.

Miss Helen Baukin
Supervisor, Division of Dental Hygiene, Department of Public Instruction.

Mrs. Agnes C. Bickerton
Instructor in Dental Hygiene, Teachers College.

FACULTY

OSCAR N. ALLEN, Ph.D. . . . . **Bacteriology**
B.A., Univ. Texas, 1927; M.A., Univ. Texas, 1927; Ph.D. Univ. Wisconsin, 1930.

W. R. McALLEP . . . . . **Chemistry**
Sugar Technologist, H. S. P. A. Experiment Station, Honolulu.

*HELEN M. BAUKIN, R. D. H. . . . . **Education**
Diploma, Whitewater Normal School; R. D. H., Eastman School of Dental Hygiene; Supervisor, Division of Dental Hygiene, Department of Public Instruction.

AGNES C. BICKERTON, M.A. . . . . **Dental Hygiene**
Diploma, Honolulu Dental Infirmary School of Dental Hygiene, 1921; B.A., University of Hawaii, 1932; M.A., Univ. of Hawaii, 1935.

ELIZABETH D. W. BROWN, Ph.D. . . . . **Anatomy**
B.A., Maryville College, 1905; M.A., Maryville College, 1911; B.A., Univ. Michigan, 1908; M.S., Univ. Michigan, 1909; Ph.D., Univ. Michigan, 1912; Biological Laboratory, Woods Hole; Cornell Univ.; Yale Univ.

LILA CANAVAN, M.S. . . . . **Food Economics**
A.B., University of Kansas, 1909; M.S., Kansas State College, 1929.

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* Courses offered beginning 1936-37.

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MERVYN I. CONNER, D.D.S. . . . . **Dental Prophylaxis**
D.D.S., University of California, 1926.

CHARLES H. EDMONDSON, Ph.D. . . . . **Physiology**
Ph.B., Univ. Iowa, 1903; M.S., Univ. Iowa, 1904; Ph.D., Univ. Iowa, 1906.

*GEORGE P. GORDON, M.A. . . . . **Education**
Ph B., Muskingum College, 1914; B.A., Hanover College, 1917; M.A., Columbia Univ., 1925.

ANDREW W. LIND, Ph.D. . . . . **Sociology**
A.B., Univ. Washington, 1924; M.A., Univ. Washington, 1925; Ph.D., Univ. Chicago, 1931.

THAYNE M. LIVESAY, Ph.D. . . . . **Education
A.B., Pacific Univ., 1917, M.A., Univ. Washington, 1921; Stanford Univ.; Ph.D., Univ. Washington, 1931.

CAREY D. MILLER, M.S. . . . . **Nutrition**
A.B., Univ. California, 1917; M.S.. Columbia Univ., 1922; Graduate Study, Yale Univ., 1928-29.

GEORGE J. PEAVEY, M.A. . . . . **Public Speaking**
A.B., Univ. Denver, 1924; M.A., Univ. Hawaii, 1931.

THEODORE R. RHEA . . . . . **Public School Health
A.B., University of Denver, 1927; C.P.H., Yale Univ., 1931; Director, Division Health Education, Department of Public Instruction.

BERNICE RIECKMAN, R. N. . . . . **Personal Hygiene**
Illinois State Normal School; Univ. Illinois; Univ. Chicago; R.N., Evangelical Hospital, Chicago School of Nursing, 1927.

EPHRAIM V. SAYERS, Ph.D. . . . . **Education
A.B., Indiana Univ., 1914; A.M., Indiana Univ., 1921; Ph.D., Columbia Univ., 1929.

*R. RAY SCOTT, Ph.D. . . . . **Education**
Ph.B., Hiram College, 1914; Graduate Study Union Theological Seminary, 1915; M.A., Columbia Univ., 1916; Graduate Study, Univ. Wisconsin, Univ. Chicago, Univ. Pittsburg; Ph.D., Ohio State Univ., 1932.

*MADORAH E. SMITH, Ph.D. . . . . **Education**
A.B., Fargo College, 1907; Lenox College; Univ. Washington; M.A., State Univ., Iowa, 1918; Ph.D., State Univ., Iowa, 1925.

VERNON E. SMITH, D.D.S. . . . . **Dental Anatomy**
D.D.S. University of Southern California, 1932.

JESSE A. TANNER, Ph.D. . . . . **Education**
Diploma, North Dakota State Normal School, 1903; B.A., Univ. North Dakota, 1905; M.A., Univ. North Dakota, 1906; Univ. Chicago; Ph.D., Univ. Wash., 1929.

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* Courses offered beginning 1936-37.
** Courses offered beginning 1937-38.

UNIVERSITY OF HAWAII

The University of Hawaii was established by act of the Territorial Legislature in 1907. It is a land-grant university, and bears the same relation to the Territory that the several state universities bear to their respective states.

The University of Hawaii is fully accredited by the Association of American Universities. Students may transfer to other American and European universities on the same basis as may students f the foremost American universities. Students may also transfer to the leading Oriental universities.

HISTORY

Since the University began to function as the College of Hawaii in 1908, its growth has been constant in number of students, in the scope of its non-academic service, and in the public esteem. Instruction began with two instructors and five students in a temporary location on the grounds of the present Lincoln School.

After a few years the institution was moved to its present site in Manoa Valley. With the addition of a College of Arts and Sciences in 1920, the name of the institution was changed to the University of Hawaii. In 1931 the Graduate School of Tropical Agriculture was organized, and during the same year the Teachers College was added as a result of the consolidation of the Territorial Normal School with the University School of Education.

ORGANIZATION

The University comprises a College of Applied Science, a College of Arts and Sciences, a Teachers College, a graduate division which includes the Graduate School of Tropical Agriculture and several non-academic units. The University Adult Education Division conducts courses carrying University credit in towns of the Territory other than Honolulu and a few non-credit courses on the University campus. The academic year is divided into two semesters of eighteen weeks each, with a Summer Session of six weeks.

CAMPUS AND BUILDINGS

The campus, which occupies an area of almost 300 acres, is located in beautiful Manoa Valley, about three miles from the business center of Honolulu. The principal buildings on the campus are Hawaii Hall, Gartley Hall, Dean Hall, the Library, the Teachers College, Farrington

Hall, the Engineering Quadrangle, the Gymnasium, and the Agricultural Building. All except the last four are three-story structures and all except the Gymnasium are built of reinforced concrete.

ADMISSION

It is the purpose of the University of Hawaii to prepare its graduates for special distinction in whatever vocation they may choose and to this end candidates for admission must present satisfactory evidence of their fitness for university work. This is determined in part by the scholastic record made in the school or college last attended, partly by a college aptitude examination, and partly by ratings of personality traits, ability, and fitness for university work.

HISTORICAL SKETCH OF DENTAL HYGIENE

Hawaii's program of dental hygiene education began in August 1920 with the creation of a fund by Mrs. Helen Strong Carter as a memorial to her parents. As a result, the Honolulu Dental Infirmary was organized. A school for the training of dental hygienists was later added as a function of the infirmary. This school was the result of the advice of Dr. Alfred C. Fones, the pioneer in dental hygiene education who visited the Islands in 1921. The Territorial legislature appropriated funds for the development of the dental hygiene work in the public schools, the plan being to expand the work until forty hygienists were engaged, it being estimated that this number would be necessary to care for the program.

The first hygienists employed were trained in mainland institutions. The school of the Dental Infirmary prepared twenty hygienists before it closed its doors in 1924. The course of this school was of one year's duration, typical of the courses offered elsewhere. While not directly concerned at that time, the Territorial Normal School had a share in the training of hygienists. This came about through the desire that the hygienists should be more than technicians. Dr. Fones and other leaders were of the belief that they should be teachers of mouth hygiene. As a result, arrangements were made whereby students in training at the Dental Infirmary were enabled to carry courses in education and psychology at the Normal School.

In 1924, the Honolulu Dental Infirmary was closed. The Strong Foundation was created and the trustees have since that time administered the funds of the endowment in supporting the Palama Settlement Dental Clinic and similar activities.

By 1926, the need for more dental hygienists was again apparent. An appeal to the Strong Foundation brought about the program of training for dental hygienists at the Territorial Normal School. The plan involved the following:

1. A specialized two-year curriculum above high-school graduation.
2. A lay administrative committee consisting of the President of the Normal School and two others appointed by the Strong Foundation.
3. A subsidy, not to exceed $5,000 a year from the Strong Foundation to care for the technical needs of instruction and equipment.

By 1930, the need for hygienists had been met and the program of preparation was given up.

By September 1935 it became apparent that the schools of Hawaii would soon need additional dental hygienists. The Territorial Normal School no longer existed, having been merged with the school of education of the University of Hawaii in 1931. The successor to these two schools is known as the Teachers College.

In the period from 1930-35 standards of teacher preparation in Hawaii had been materially raised: The course for secondary school service was extended from four to five years of college preparation; the course for elementary school service from two to five years of college preparation.

In line with the views of the founder, Hawaii's dental hygienists have, since the beginning of the movement, been teachers in the public schools. In the reorganization of the program of training, it was therefore developed as a department in the Teachers College. It was also decided to require substantially the same standards of training as apply to other teachers. The new program is therefore organized on a five year college basis. The University receives $5,000.00 annually from the Strong Foundation in support of the program.

ORGANIZATION OF PROGRAM

Prospective dental hygienists meet the same entrance requirements as others who matriculate at the University of Hawaii. During the first two years, the student is provided with a basic program designed to provide a cultural and scientific background for the specialized program of the upper-division and graduate years. The student may register in any one of the three undergraduate colleges of the University, but must have met the basic requirements

before matriculation as a junior in the dental hygiene curriculum. Ordinarily, the student will be registered in the College of Applied Science during the first two years. During the third, fourth, and fifth years the student is registered in Teachers College.

The Junior and Senior years are primarily devoted to specific preparation for dental hygiene service and include, likewise, provisions for acquiring professional education background. In the fifth (post-graduate) year, stress is laid on health education and a broadening of the general education background.

As is true in the preparation of other teachers in Hawaii, considerable time is provided for the experiential phases of training. For dental hygienists, this begins with the course in Dental Operative Technique. Three semester hours (six laboratory) are required in the first semester of the Junior year, two in the second semester and one in the first semester of the Senior year. The last nine weeks of the senior year are devoted exclusively to prophylactic practice under supervision. During one semester of the fifth year the student is assigned to a Honolulu public school as a probationary teacher, under supervision. Aside from prophylactic work, the student has experience in health education work.

DEGREES AND CERTIFICATES

By the end of the fourth college year the student specializing in dental hygiene will have met the same credit and gradepoint requirements as other students registered in Teachers College (130 semester hours, 264 gradepoints). Upon recommendation of Teachers College faculty, the University board of regents will confer upon the student the Ed. B. (Bachelor of Education) degree.

The course is so organized that the student will by this time be ready for the examination required by law for a license to practice the profession. This examination is administered by the Dental Board of Examiners of the Territory of Hawaii.

The student having satisfactorily met the requirements of the fifth year will receive the Five Year Teachers Diploma, issued by the University upon recommendation of the faculty of Teachers College.

EXPENSES

All regular students, both undergraduate and graduate, pay a tuition fee of $100.00 an academic year, or $50.00 a semester. Part-time students, including specials, auditors,

Summer session, and extension students, taking a program of less than 10 credit hours, pay a tuition fee of $5.00 a credit hour.

In addition to the tuition fee, a registration fee of $10.00 a semester is charged to all regular students carrying 10 or more credit hours.

Laboratory and special course fees are indicated in the description of courses. Students may be billed for excessive breakage of equipment at the discretion of the instructor.

All students are required to pay a diploma fee of $5.00 at the time of graduation. A fee of one dollar is charged for each copy of transcript of record after the first such copy has been issued.

The cost of the necessary set of instruments required is $23.00. A fee of $15.00 is charged for the Dental Board examination. Rates for board and room range from $25.00 to $55.00 monthly.

It is estimated that the total expense to an average student is from $500.00 to $600.00 per year, including board and room, tuition and fees, books, and club organization dues, but not including clothes, laundry, and pocket money.

CURRICULUM

First Year

English 100 or 103	3	3
Chemistry 101	4	4
Physical Education	1	1
Zool. 150	4	....
Botany 156	....	2
Education 100	3	3
Phys. Educ. 135	1	1
Electives	1	3
	17	17

Second Year

English 130 or 135	3	3
Physical Education	1	1
Sociology 150, 151	3	3
H. S. 102	3	3
Education 180	3	....
Education 181	....	3
Electives	4	4
	17	17

Third Year

General Anatomy (Zool. 290)	3	....
Dental Anatomy (D. H. 251)	....	3
Physiology (Zool. 291)	....	3
Tooth Morphology (D. H. 200)	1	1
Nutrition (H. S. 200)	3	3
Dent. Oper. Tech. (D. H. 235)	3	2
Public Speaking (Eng. 205)	3	....
Dent. Prophylaxis (D. H. 252)	....	1
Electives	4	4
	17	17

Fourth Year

Dent. Oper. Tech. (D. H. 235)	1	....
Materia Medica (D. H. 262)	2	....
Dental Caries (D. H. 256)	2	....
Malocclussion-Radiog. (D. H. 264)	3	....
Bacteriology (Bot. 260)	4	....
Dental Histology (D. H. 258)	1	....
Oral Pathology (D. H. 260)	1	....
Educ. (268, 290, 293, 294, 295)	....	9
Clinical Pract. (D. H. 254)	....	8
Electives	3	....
	17	17

Fifth Year

Education 340	3	....
Education 350	3	....
Education 351	2	....
Education 390	2	....
Communicable Diseases (H. Ed. 350)	2	....
Prin. of Public Health (H. Ed. 352)	2	....
Public School Health Educ. (H. Ed. 356)	3	....
Probationary Teaching (Ed. 354)	....	14
Education 395	....	2
	17	16

SUMMARY OF REQUIREMENTS

I. **Cultural and General**			
English	15	Sem.	Hrs.
Sociology	6	"	"
Physical Education	4	"	"
	25	"	"
II. **Education**			
Basic	12	"	"
Mental Hygiene	2	"	"
Comparative Education	2	"	"
History of Education	5	"	"
Educational Sociology	2	"	"
Educational Philosophy	3	"	"
Educational Psychology	2	"	"
School Administration	2	"	"
Field Problems	1	"	"
Education Conference	2	"	"
	33	"	"
III. **Basic Science**			
Chemistry	8	"	"
Botany	6	"	"
General Zoology	3	"	"
General Anatomy	3	"	"
Physiology	3	"	"
	23	"	"
IV. **Health Education**			
Personal Hygiene	2	"	"
Communicable Diseases	2	"	"
Principles of Public Health	2	"	"
Public School Health	3	"	"
	9	"	"

V. Home Economics			
Food Economics	6	"	"
Nutrition	6	"	"
	12	"	"
VI. Dental Hygiene			
Dental Anatomy	3	"	"
Tooth Morphology	2	"	"
Dental Operative Technique	6	"	"
Dental Prophylaxis	1	"	"
Materia Medica	2	"	"
Dental Caries	2	"	"
Malocclussion-Radiography	3	"	"
Dental Histology	1	"	"
Oral Pathology	1	"	"
	21	"	"
VII. Clinical Practice and Teaching			
Clinical Practice	8	"	"
Probationary Teaching and Clinical Service	14	"	"
	22	"	"
VIII. Electives			
Advised	13	"	"
(Botany, Household Science, Zoology, Geography, Biology, Political Science, Chemistry, Geology, Physics, Economics)			
Free Electives	10	"	"
	23	"	"

Summary of Totals:

1. General	25	Sem.	Hrs.
2. Education	33	"	"
3. Science	23	"	"
4. Health Education	9	"	"
5. Home Economics	12	"	"
6. Dental Hygiene	21	"	"
7. Clinical and Teaching Experience	22	"	"
8. Electives	23	"	"
Total Five Years	168	"	"

COURSE DESCRIPTIONS

BOTANY

156 Bacteria in Relation to the Individual and the Public. **Allen**

A course stressing the importance of bacterial activities in everyday life. The history of bacteriology, the most important groups of bacteria, and the methods of studying bacteria, are reviewed briefly. Special attention is given to the roles that bacteria play in agriculture, the dairy industry, the supervision of water supplies, sewage disposal, the canning industries, epidemics, types of diseases, the bacteriological treatment of the most common diseases. Second semester, 2 credits.

260 Medical Bacteriology* **Allen**

A course designed to acquaint the student with the fundamentals of serology and the physiological reactions of the common pathogenic bacteria. The common diseases will be studied in the laboratory and presented in the lectures from the standpoints of diagnosis, therapeutic and prophylactic methods of treatment. Emphasis will also be placed on the recent theories of bacterial dissociation, life cycles, the bacteriophage phenomena, and their pathogenic relationships. Prerequisite: Botony 151. Two lecture hours and two laboratory periods each week. Laboratory fee $5.00. First semester, 4 credits.

CHEMISTRY

101 General Chemistry **McAllep**

An introductory course in general chemistry for students without previous training in the subject. Students receiving entrance credit in chemistry are required to elect Chemistry 102. Three hours lecture and one period laboratory each week. Laboratory fee $7.00 per semester. First and second semesters, 4 credits each.

DENTAL HYGIENE

200 Tooth Morphology **Bickerton**

The course provides an opportunity for each student to carve a full complement of models; of anterior and posterior teeth showing general form, cusps, planes and angles. First and second semesters, 1 credit each.

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* Not offered for dental hygiene students until 1936-1937.

235 Dental Operative Technique **Bickerton**

Instruction and practice work on manikin heads in the technic of instrumentation and polishing. The proper manipulation of instruments for the removal of accretions, deposits and stains, and the use of all instruments in the field of dental hygiene are mastered. First and second semesters, 1 to 3 credits.

251 Dental Anatomy **V. Smith**

A study of the anatomical and chemical structure of the teeth, anatomy of bones forming the oral cavity, soft palate, throat, muscles of mastication, lip, tongue, floor and other boundaries of the oral cavity. Second semester, 3 credits.

252 Dental Prophylaxis **Conner**

A study of the prophylactic treatment of the mouth with special attention to those measures which can be employed to prevent or to arrest dental caries and adjacent tissues, degeneration. The tooth brush, its selection, sterilization and use are also considered. Second semester, 1 credit.

254 Clinical Practice* **Bickerton**

This course consists of 9 weeks of concentrated clinical prophylactic practice under supervision. Second semester, 8 credits.

256 Dental Caries*

A consideration of the causation, progress and sequelae of caries. Preventive measures. Composition, location, differentiation and causes of accretions, deposits and stains found upon the teeth. Their harmful results and preventive measures. First semester, 2 credits.

258 Dental Histology*

A course embracing the sequential steps in the formation of the primary tissues. Special consideration will be given to the study of the origin and classification of dental tissues, enamel, dentine, cementum, pulp and all the soft tissues of the oral cavity. Microscopical examinations, drawings and slides will be used as means of illustration. First semester, 1 credit.

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260 Oral Pathology.

The fundamentals of general pathology and its specific application to the diseases of the mouth. Mouth manifestations of communicable diseases. Alveolar abscess, fistulae, glandular involvement. Granulomas and systemic involvement — pyorrhea, gingivitis; diagnosis, causes and prognosis. First semester, 1 credit.

262 Materia Medica*

A study of the derivation and effects of the drugs most commonly used in dentistry. A general discussion of the relative values of germicides, anticeptics, and disinfectants; analysis of the formulae of dentifrices and mouth washes. First semester, 2 credits.

264 Malocclussion and Radiography*

Etiology, individual mal-posed teeth and Angle's classification are features of this course. The student is also made familiar with the X-Ray machines, tubes, radiographs. Lantern slides, models, etc. are used for illustration. First semester, 3 credits.

EDUCATION

100 Introduction to Education — Tanner

This course is the first of a series of three which form a core of professional work running through the first two years of the student's program. These courses are constructed around practical professional problems beginning with those closest to the entering student and remaining so far as possible from the student's point of view practical and significant throughout. The instructor in charge of a particular section is responsible for undertaking to stimulate and help individual students to integrate their various college experiences around their professional interest. This particular course and those of the series following are intended to be unifying professional courses. First and second semesters, 3 credits each.

180 Problems of Human Behavior — Tanner

The emphasis in this course is upon the adjustive and social nature of behavior. The nature of habit is studied. The student is introduced to the problems of mental hygiene and of social psychology. The course is continuous with 100 described above. First semester, 3 credits.

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181 Problems of Educational Method **Tanner**

The problems dealt with in this course will be centered for the most part around such matters as differing conceptions of the meaning and place of "learning," concern for the "whole" child, thinking as method, care for individual differences, meaning and place of "subject matter." The course is continuous with 100 and 180. Second semester, 3 credits.

268 Mental Hygiene **M. Smith**

A study of the factors that determine personality and the conditions requisite to the preservation of mental health. Special emphasis is laid on the principles underlying child care and education, and on methods of studying and helping the maladjusted child. Applications of mental hygiene to other fields are also considered. Prerequisite: Psychology 150 or the equivalent. First semester, 2 credits.

290 Field Problems* **Baukin**

A consideration of the varied types of problems met by the dental hygienists in field practice: Problems of adjustment to schools, principals and teachers; community relationships, travel, living accomodations and professional ethics are typical. First semester, 1 credit.

293 Comparative Educational Practice*

An examination of literature descriptive of school practices in the so-called New Schools abroad and in America. Attention will be given to such school procedures in America as the Winnetka, Dalton, Francis W. Parker, Lincoln, and many others including Hanahauoli and Kawananakoa. Study will be made of the newer schools of Germany, Russia, and Austria. First semester, 2 credits.

294 Educational Sociology* **Scott**

An examination of those factors and situations within the contemporary school and community which play a large part in influencing men's behavior, in order to discover the conditions within which a better education may be developed. First semester, 2 credits.

295 History of Education in the United States* **Gordon**

A study of the evolution of American education; to prepare teachers in training and students of the science of education to use the historical method in interpreting current educational movements. First semester, 2 credits.

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340 Philosophy of Education** **Sayers**

A re-examination of certain basic philosophic questions, the answers to which constitute the viewpoints which guide in the solution of problems of policy in education, followed by an attempt to construct a working theory of education —of administration, curriculum, method—which will serve best in a democracy. Registration by permission of the instructor. First semester, 3 credits.

350 History of Education** **Tanner**

A survey of the development of educational thought and practice, from the time of the Greeks down to the present, with special attention to the origins of the influences responsible for the modern school systems. Registration only by permission of instructor. First semester, 3 credits.

351 Advanced Educational Psychology** **Livesay**

The application of experimental evidence in the field of psychology to the major educational problems. Attention given to the bearing of recent psychological theories upon education. Registration only by permission of instructor. First semester, 2 credits.

354 Probationary Teaching**

This course consists of full-time teaching under supervison in selected public schools. Required of all fifth year sudents. Second semester, 14 credits.

390 School Organization and Management** **Scott**

A course designed for fifth year students dealing with the many routine problems of school administration and the teachers' relationship to them. First semester, 2 credits.

395 Educational Conference**

A course contemporary with probationary teaching, serving as a clearing-house for discussion of problems arising in actual practice. First or second semester, 2 credits.

** Not offered for dental hygiene students until 1937-38.

100 Composition — **English Staff**

The principles of exposition, description, and narration; analysis of illustrative specimens; frequent written exercises, and individual conferences with instructor; occasional exercises in oral composition; collateral reading. Designed to lead not only to correctness of expression, but also to a knowledge of constructive principles. Either this course or English 102 is required of all Freshmen in the College of Applied Science and Arts and Sciences. Collateral reading fee $1.00 first semester. First and second semesters, 3 credits each.

130 English Literature — **English Staff**

A survey of English literature from Beowulf to Wells, with special attention to the development of the ideas and ideals that have helped shape our present ways of life. In addition to the reading of some standard history of literature and collection of extracts, there will be a detailed study of at least six complete novels and plays. Required of all Sophomores in the College of Arts and Sciences, and may be elected by Sophomores in the College of Applied Science in place of English 120. Prerequisite: English 100 or 102. First and second semesters, 3 credits each.

205 Public Speaking — **Peavey**

The technic of public speaking, parliamentary practice, preparation and delivery of type speeches, mock trials, oratory, and simple debate. Extemporaneous speaking is stressed. Prerequisite: English 100 or 102. First semester, 3 credits.

HOUSEHOLD SCIENCE

102 Food Economics — **Canavan**

The selection, preparation, and comparison of foods as related to composition, cost, and season. Students are required to give some time to meal planning, serving, and demonstrations. The cost and availability of foods with regard to economic conditions, production, transportation, and marketing will be considered. Prerequisite: Chemistry 101 or 102; H. S. 150 or its equivalent. Laboratory fee $5.00 per semester. One lecture, two 2½-hour laboratory periods. First and second semesters, three credits each.

200 Nutrition **Miller**

A study of the nutritive requirements of man; the function of food in the body; the nutritive value of foods and their place in the diet. The course includes a study of the foods and diet of peoples of the Orient and the Pacific Islands as well as the United States. Prerequisites: Chemistry 101 or 102; Chemistry 152. Prerequisite or parallel: Chemistry 260, 262. Two lectures and one 2½-hour laboratory period. Laboratory fee $5.00 per semester. First and second semesters, 3 credits each.

PHYSICAL AND HEALTH EDUCATION

100 Freshman Course (Women) **P. Ed. Staff**

Required of all first year women. Three hours of supervised exercise a week. First and second semesters, 1 credit each.

103 Sophomore Course (Women) **P. Ed. Staff**

Required of all second year women. Three hours of supervised exercise. First and second semesters, 1 credit each.

135 Hygiene **Rieckman**

A study of the organs of the human body with special emphasis placed upon their functions and care. The aim of the course is to give prospective teachers a physiological basis for a better understanding of their health, the hygienic problems important to the interests and needs of the community, the physical development of children. First and second semesters, 1 credit each.

350 Communicable Diseases**

A course considering the acute contagious diseases, symptoms and manifestations. First or second semester, 2 credits.

352 Principles of Public Health**

A course designed to familiarize the student with problems of public health, with stress on sanitation and work of federal and local health agencies.

356 Public School Health** **Rhea**

A study of the health problems of the elementary and secondary school child. Child Hygiene relative to general school problems, organization and development of health education programs; the underlying principles of communicable disease control; nutrition, dental hygiene and tuberculosis control. First or second semester, 3 credits.

* Not offered for dental hygiene students until 1936-1937.

SOCIOLOGY

150-151 Introduction to the Study of Sociology — **Lind**

An orientation course. First semester: The origin and development of the moral order including custom, friendship, marriage and the family, kinship, magic, and religion. Second semester: The political and competitive orders, including the growth of the state, indigenous society and the world community, world politics, and world religion. Lectures, readings, discussions, and field study. Library fee $1.00. First and second semesters, 3 credits each.

ZOOLOGY

150 General Zoology — **Zoology Staff**

An introduction course covering in a general way the field of animal life. Biological principles are presented and a study of the structure, development, relationship, distribution, and economic importance of animals is made. Required of pre-medical students. Two lectures and two laboratory periods a week. Laboratory fee $5.00. First semester, 4 credits.

290 General Anatomy — **Brown**

A general survey of the human gross anatomy: the framework of the body; essential features in the anatomy of the soft parts of the head and neck and of the central nervous system. First semester, 3 credits.

291 Physiology — **Edmondson**

A course in physiology for the general student as well as those preparing for medicine. The functions characteristic of the various systems of organs of the human body are considered in detail. Not open to Freshmen or Sophomores. Three lectures a week. Second semester, 3 credits.

APPROVED ELECTIVE COURSES†

Biology 135
Botany 101
Chemistry 152, 153, 260, 262
Economics 150, 151
Geography 150, 151
Geology 252, 253
Household Science 150
Physics 102
Political Science 150, 151
Zoology 151, 160, 161

† Descriptions of these and other elective courses may be found in the general catalog of the University.