

*The*  
OHIO STATE UNIVERSITY  
BULLETIN

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VOLUME XXVII

JANUARY 20, 1923

NUMBER 8

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COLLEGE OF  
DENTISTRY

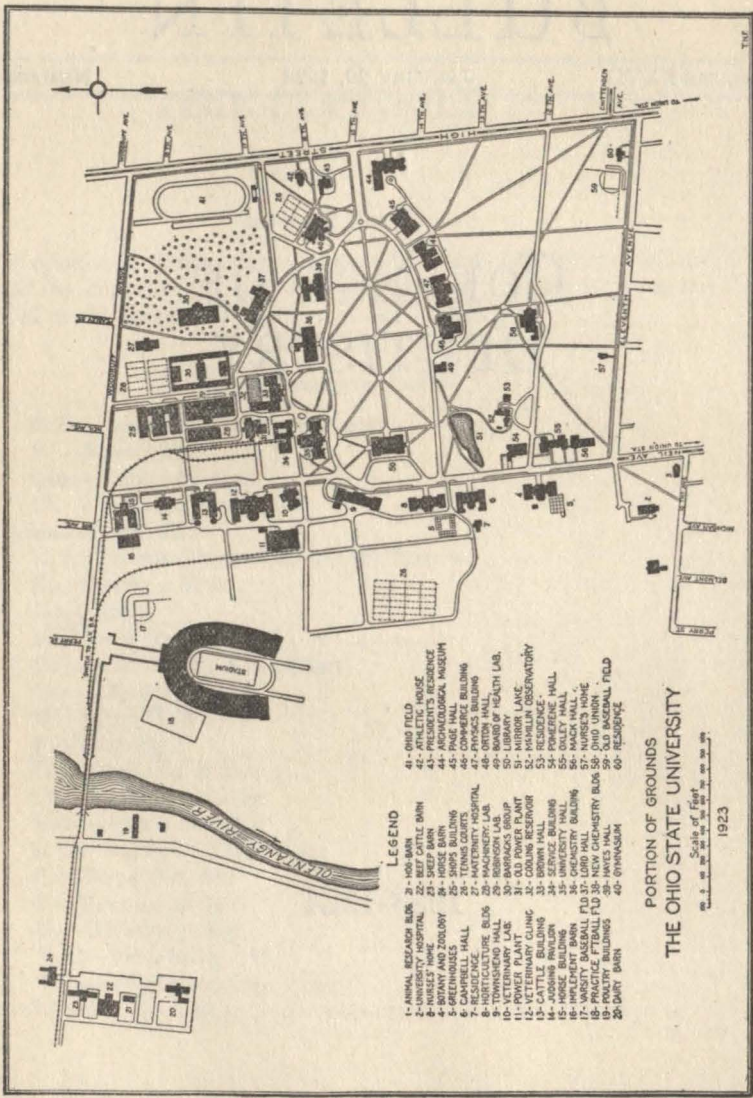
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1923-1924

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**LEGEND**

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| 1- ANIMAL RESEARCH BLDG | 27- HORSE BARN         | 41- OHIO FIELD HOUSE       |
| 2- HORSE BARN           | 28- HORSE BARN         | 42- PRESIDENT'S RESIDENCE  |
| 3- HORSE BARN           | 29- SHEEP BARN         | 43- ANTHROPOLOGICAL MUSEUM |
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**PORTION OF GROUNDS  
THE OHIO STATE UNIVERSITY**

Scale of Feet  
0 10 20 30 40 50 60 70 80 90 100  
1923

# UNIVERSITY CALENDAR

1923

**SUMMER QUARTER**, Monday, June 18, to Saturday, September 1.

Registration Days, Friday and Saturday, June 15 and 16.

Classes begin Monday, June 18, 7:30 A. M.

Physical Examination for all new students, Friday, June 15, to Saturday, June 23.

Entrance Examinations, Monday, June 18, to Friday, June 22, 8 A. M.

Intelligence Test for all new students, Saturday A. M., June 23.

Independence Day, Wednesday, July 4. No classes.

First term, Summer Quarter, ends Wednesday, July 26, 5:30 P. M.

Second term, Summer Quarter, begins Thursday, July 26, 7:30 A. M.

Summer Quarter ends September 1, 12 M.

**AUTUMN QUARTER**, Monday, October 1, to Saturday, December 22.

Entrance Examinations, Monday, September 10, to Friday, September 14, 8 A. M.

Registration Days, Monday and Tuesday, October 1 and 2.

Classes begin Wednesday, October 3, 8 A. M.

Physical Examination for all new students, Thursday, September 27, to Friday, October 5.

President's Annual Address, Wednesday, October 3, 11 A. M.

Examinations for removal of deficiencies—work reported "incomplete," Friday and Saturday, October 5 and 6.

Intelligence Test for all new students, Saturday A. M., October 6.

Latest date for registration of candidates for a degree at the Commencement in June, 1924, October 9.

Armistice Day, November 11.

Thanksgiving Day, Thursday, November 29. No classes.

Autumn Quarter ends December 22, 12 M.

1924

**WINTER QUARTER**, Wednesday, January 2, to Friday, March 21.

Registration Day, Wednesday, January 2.

Classes begin Thursday, January 3, 8 A. M.

Physical Examination for all new students, Wednesday, January 2 to Saturday, January 5.

Intelligence Test for all new students, Saturday A. M., January 5.

University Day, Friday, February 22. No classes.

Winter Quarter ends March 21, 6 P. M.

**SPRING QUARTER**, Saturday, March 22, to Friday, June 6.

Registration Day, March 22.

Classes begin Monday, March 24, 8 A. M.

Physical Examination for all new students, Saturday, March 22, to Saturday, March 29.

Intelligence Test for all new students, Saturday A. M., March 29.

Competitive Drill, Cadet Regiments, Saturday, May 17.

Memorial Day, Friday, May 30. No classes.

Spring Quarter ends June 6, 6 P. M.

Alumni Day, Saturday, June 7.

Baccalaureate Sermon, Sunday, June 8.

Class Day, Monday, June 9.

Commencement, Tuesday, June 10, 10 A. M.

Summer Quarter, Monday, June 16, to Saturday, August 30.

Autumn Quarter, Monday, September 29, to Friday, December 19.





## ADMINISTRATION

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### BOARD OF TRUSTEES

JOHN KAISER, Chairman.....	Marietta
THOMAS C. MENDENHALL, Vice-Chairman.....	Ravenna
CHARLES F. KETTERING.....	Dayton
LAWRENCE E. LAYBOURNE.....	Springfield
OSCAR E. BRADFUTE.....	Xenia
BENJAMIN F. MCCANN.....	Dayton
EGBERT H. MACK.....	Sandusky

## THE COLLEGE OF DENTISTRY

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### OFFICERS

WILLIAM OXLEY THOMPSON, A.M., D.D., LL.D.....	<i>President</i>
HARRY M. SEMANS, D.D.S.....	<i>Dean</i>
CARL E. STEEB, B.Ph.....	<i>Bursar</i>
EDITH D. COCKINS, B.A.....	<i>Registrar of the University</i>
BLAND L. STRADLEY.....	<i>University Examiner</i>
HARVEY V. COTTRELL, D.D.S.....	<i>Secretary of the Faculty</i>
WILLIAM M. MUTCHMORE.....	<i>Custodian of Buildings, College of Dentistry</i>
ALLIE HARNESS.....	<i>Clinic Clerk</i>
KATHARINE L. PUGH.....	<i>Executive Clerk</i>

### EXECUTIVE COMMITTEE

HARRY M. SEMANS, D.D.S.
CLAYTON MCPEEK, M.D.
HARVEY V. COTTRELL, D.D.S.
WILLIAM C. GRAHAM, D.D.S.
CLYDE H. HEBBLE, D.D.S.
EDWARD C. BUCK, M.D.

# THE COLLEGE OF DENTISTRY

## FACULTY

- WILLIAM OXLEY THOMPSON, A.M., D.D., LL.D....1873 North High Street  
*President of the University*
- HARRY M. SEMANS, B.A., M.A., D.D.S., *Dean*.....710 North Park Street  
*Professor of Operative Dentistry and Dental Anatomy*
- FRANCIS L. LANDACRE, B.A., Ph.D.....Medical Research Building  
*Professor of Anatomy*
- THOMAS E. FRENCH, M.E.....1778 North High Street  
*Professor of Engineering Drawing*
- CHARLES B. MORREY, B.A., M.D.....Veterinary Laboratory Building  
*Professor of Bacteriology*
- WILLIAM MCPHERSON, M.Sc., D.Sc., Ph.D.....198 Sixteenth Avenue  
*Professor of Chemistry*
- HARVEY V. COTTRELL, D.D.S.....403 Hartman Building  
*Professor of Prosthetic Dentistry*
- ERNEST SCOTT, B.Sc. in Agr., M.D.....710 North Park Street  
*Professor of Pathology*
- ROY GRAHAM HOSKINS, A.B., A.M., Ph.D., M.D...710 North Park Street  
*Professor of Physiology*
- CLAYTON S. SMITH, B.Sc., M.Sc., Ph.D., M.D....710 North Park Street  
*Professor of Physiological Chemistry, Pharmacology, and  
Materia Medica*
- RAYMOND J. SEYMOUR, B.Sc., M.S., M.D.....Horticulture Building  
*Assistant Professor of Physiology*
- CLAYTON MCPEEK, B.A., M.D.....710 North Park Street  
*Assistant Professor of Physiology*
- EDWARD C. BUCK, M.D.....710 North Park Street  
*Assistant Professor of Anatomy*
- ROLAND B. WILTBERGER, D.D.S.....511 Citizens Bank Building  
*Assistant Professor of Crown, Bridge and Porcelain*
- CLYDE H. HEBBLE, D.D.S.....327 East State Street  
*Assistant Professor of Operative Dentistry*
- WILLIAM C. GRAHAM, D.D.S.....350 East State Street  
*Assistant Professor of Dental Medicine*

- CECIL E. BOORD, B.A., M.A., Ph.D.....417 Thirteenth Avenue  
*Assistant Professor of Chemistry*
- ROLLO C. BAKER, B.A., M.A.....Medical Research Building  
*Assistant Professor of Anatomy*
- RALPH A. KNOUFF, B.A., M.A.....Medical Research Building  
*Assistant Professor of Anatomy*
- LESTER C. OGG, D.D.S., Major, D.C., U. S. A.....1047 Bryden Road  
*Assistant Professor of Military Science and Tactics*
- JOHN W. MEANS, D.D.S., M.D.....715 North High Street  
*Instructor in Oral Surgery*
- HERBERT S. SHUMWAY, D.D.S.....403 Hartman Building  
*Instructor in Prosthetic Laboratory*
- CHARLES W. STROSNIER, D.D.S.....Citizens Bank Building  
*Instructor in Operative Clinic and Assistant in Dental Anatomy*
- DICK P. SNYDER, D.D.S.....137 East State Street  
*Instructor in Exodontia and X-Ray*
- EDWIN W. MARTINDALE, B.A., D.D.S.....Rugger Building  
*Instructor in Dental Anesthesia*
- IRWIN A. BOTTENHORN, D.D.S., M.D.....15 West Goodale Street  
*Instructor in Dental Pathology*
- EDWIN P. DURRANT, A.B., M.A.....Horticulture Building  
*Instructor in Physiology*
- FRANK C. STARR, D.D.S.....609 Hartman Building  
*Instructor in Crown and Bridge Work and Metallurgy*
- OLLIE O. MOBBERLY, D.D.S.....677½ North High Street  
*Superintendent of Dental Laboratories and Examiner*
- LOUIS E. REIF, D.D.S.....Citizens Bank Building  
*Instructor in Operative Dentistry*
- EARL G. JONES, D.D.S.....185 East State Street  
*Instructor in Orthodontia*
- RALPH S. PAFFENBARGER, B.E.E.....39 Longview Avenue  
*Instructor in Engineering Drawing*
- WEBSTER M. BAKER, D.D.S.....2393½ West Broad Street  
*Instructor in Prosthesis*
- LEAR H. VANBUSKIRK, B.Sc. in Chem. Engr., M.D., 710 North Park Street  
*Instructor in Pathology*
- FRED SPEER, D.V.M.....Veterinary Laboratory Building  
*Instructor in Bacteriology*



# THE OHIO STATE UNIVERSITY

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The Ohio State University is supported by appropriations from the State and Federal governments. It is the largest university in Ohio. It ranks eighth in size in the United States, and fifth among the state universities.

The Campus and farm cover 880 acres. The Campus proper contains 115 acres. There are 62 buildings on the University grounds, 45 of which are devoted to instruction. The total value of land, buildings, and equipment is \$8,124,062.33. The enrollment in the University, November 1, 1922, was 8843, and the number of instructors and administrative officers 673.

## LOCATION

The University is situated within the corporate limits of the city of Columbus, and is reached by means of the High Street or Neil Avenue electric cars. The Colleges of Dentistry and Medicine are located on Park Street, near Buttles Avenue.

The offices of the President of the University, the Entrance Board, the Registrar, and the Bursar are located in University Hall.

## ORGANIZATION

For convenience of administration the departments of the University are grouped into organizations called colleges. The Ohio State University comprises ten colleges and a graduate school, each under the administration of a dean and college faculty, as follows:

Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy, and Science	College of Law
College of Commerce and Journalism	College of Medicine
College of Dentistry	College of Pharmacy
	College of Veterinary Medicine

This bulletin is devoted exclusively to the work of the College of Dentistry for the academic year, 1923-1924.

For bulletins of the College of Dentistry, or any information in regard to entrance, address the University Examiner, The Ohio State University, Columbus, Ohio. For information concerning the College, address Dr. Harry M. Semans, Dean, College of Dentistry, North Park Street, Columbus, Ohio.

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NOTE—University bulletins may be obtained by addressing the University Examiner, The Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.



# THE COLLEGE OF DENTISTRY

## LOCATION

The College of Dentistry is located on Park Street near Buttles Avenue, four blocks north of the Union Station. Within two years the College of Dentistry will be transferred to new buildings located on the Campus of the University.

## IMPORTANT NOTICE

Satisfactory evidence must be presented that the applicant for entrance has completed at least one year of instruction in an approved college of liberal arts and science, forty-five Quarter-credit hours or thirty semester hours, after the completion of an approved four-year high school course based upon eight years of elementary preparation. The year of college instruction must include English 9 hours, biology 9 hours, and chemistry 9 hours, or 6 hours each, respectively, on the semester basis. Physics must be presented for admission. This may be taken either in the high school or in an arts college.

## RESERVE OFFICERS' TRAINING CORPS

In compliance with the Act of Congress, approved June 4, 1920, which amends the National Defense Act of June 3, 1916, a Dental Unit of the Reserve Officers' Training Corps has been established at the University, and a dental officer of the Regular Army detailed to instruct it. As a result, students in the College of Dentistry may elect the Dental Unit and will receive military training along lines which will, in case of war, best fit them to serve their country through their own profession. Graduates of the College, who have completed the training in the Dental Unit, will be commissioned in the Dental Section Officers' Reserve Corps.

The course of instruction consists of a theoretical course covering the four collegiate years. The first and second years constituting the basic course, and the third and fourth years the advanced course. Students must satisfactorily complete the basic course before they are eligible for the advanced course. During the advanced course students receive commutation of rations as a remuneration from the Government.

The theoretical course is supplemented by a practical course of six weeks duration, given at a summer training camp, which is compulsory for advanced course students and may be taken the summer following either the second or third year. The camp at present is held at the Medical Field Service School, Carlisle Barracks, Pa., in an interesting and delightful section of the country. The Government furnishes transportation to and from camp at the rate of five cents per mile. While in camp, clothing, subsistence, medical attention, and entertainment are provided in addition to pay at the rate of one dollar per day.

## LABORATORIES AND CLINICAL FACILITIES AT THE PARK STREET BUILDING

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To persons who are familiar with the teaching faculty of the College of Dentistry it is well known that the science branches have been taught for several years by specialists—men who devote all their time to teaching and work in their special subjects. A number of the laboratories, such as anatomy, physiology, bacteriology, and chemistry, are in charge of teachers who give all their time to teaching. The other laboratories are presided over by teachers who are experts in their special lines of work.

The dental laboratories are located in the Park Street Building.

### ANATOMICAL LABORATORY

The anatomical laboratory includes two large rooms with a floor space of more than 3500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons, and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

### PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These occupy large, well-lighted rooms with tables, lockers, and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospital clinics and from postmortems. There are adjacent rooms for preparing and storing specimens, private offices for the teaching staff, and a working library and recitation room in which is installed a modern projectoscope.

### ADVANCED BACTERIOLOGICAL LABORATORY

This laboratory is located in a spacious, well-lighted room equipped with tables, lockers, and other apparatus necessary for teaching. There are three smaller rooms for the preparation of cultures and for animals.

Facilities are provided for conducting technical laboratory examinations, such as the Wasserman, Widal, and other tests.

### BIO-CHEMICAL LABORATORY

This laboratory is located on the first floor, and is equipped with tables, lockers, and scientific apparatus. Electric fans are used to carry off the gases formed in demonstration work.

### PHYSIOLOGICAL LABORATORY

This laboratory occupies a whole floor of the main laboratory building. It is equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-two tables provided with lockers and complete sets of apparatus.

#### X-RAY LABORATORY

A laboratory has been installed in a room immediately adjacent to the dental clinic to be used especially for technical and clinical training, with apparatus for diagnosis of mouth lesions and bone diseases. Apparatus is provided for exhibition of negatives in clinical conferences.

#### DENTAL LABORATORIES

Throughout the entire course of study the student devotes to practical dentistry three or more hours each day in either laboratories or clinics.

In these laboratories instruction is given relative to the construction of artificial dentures, crown and bridge work, operative and orthodontia technics. In the clinic ample opportunity is afforded for the application of the principles taught in the laboratories.

#### OPERATIVE CLINIC

The dental operating room contains 4600 square feet of floor space, and 250 feet of window frontage.

The operative clinical department is divided into three rooms for practical work. The operating room is equipped with fifty-four modern operating chairs, the prosthetic room with fifteen chairs, and the extracting room with two chairs. These three rooms are equipped with all modern appliances which will tend to render the dental operation aseptic.

The close connection of the College with the several hospitals and the medical dispensary, offers opportunities to dental students for witnessing operations for cleft-palate, hare-lip, syphilitic lesions, and other deformities by the regular staff, and also to do practical dental clinical work.

*Students are required to be neat in their personal appearance and to wear white washable gowns while on duty in the operating room.*

Students must promptly fulfill appointments made with patients in the Dental Clinic.

The practice of dentistry by students during the term, outside the college building, is positively prohibited by the State law.

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#### LIBRARY FACILITIES

The College maintains a reading-room where the leading dental magazines may be found on file. Other literature in departmental libraries will also be at the student's disposal.

Literature of general or special interest can be obtained at the Ohio State University Library.

## GENERAL INFORMATION

### FEES AND EXPENSES

#### GENERAL CHARGES

All University fees must be paid at the opening of each Quarter as a condition of admission to classes. All registration fees, including laboratory deposits, are assessed in the office of the Registrar and are paid in the office of the Bursar. Registration is not complete until all fees have been paid. No student will have any privileges in the classes or laboratories until all fees and deposits are paid.

Since all fees are due and payable as a part of the student's registration, no person should come to the University for registration without money sufficient to cover all of his fees and deposits.

**Matriculation Fee.** Every student upon his first admission to the University is required to pay a matriculation fee of \$10.00. This fee is paid but once, and is in addition to other University fees and entitles the student to the privileges of membership in the University.

**Non-Resident Fee.** Every undergraduate student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of \$35.00 each Quarter of his residence in the University, in addition to other University fees. The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence, the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule shall be required to pay not only the non-resident fee, but shall be assessed a penalty of \$10.00. Students who do not pay this fee within thirty days after they have been notified that the non-resident fee has been assessed against them will have their registration in the University canceled.

No person shall be considered eligible to register in the University as a resident of the State of Ohio unless he has been a bona fide resident in the State twelve consecutive months next preceding the date of his original enrollment, and no person shall be considered to have gained or lost a residence in this State for the purpose of registering in the University, by any conduct of his own, while he is a student in the University; but persons whose legal residence follows that of other persons, as hereinafter provided, shall be considered to have gained or lost legal residence in this State for such purpose while students in the University according to changes of legal residence of such other persons, except that such legal residence shall not be considered to be so gained until twelve months after such other person becomes a legal resident of this State.

The residence of minors shall follow that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed



guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the State of Ohio until the expiration of twelve months after such appointment.

The residence of wives shall follow that of husbands.

Aliens who have taken out first citizenship papers and who have been residents of Ohio for twelve months next preceding the date of their enrollment in the University, shall be regarded as eligible for registration as residents of Ohio.

The tuition fee is \$150.00 for three Quarters, including laboratory deposit. The student must pay \$50.00 at the beginning of each Quarter, and will not be enrolled in classes until this fee is paid. No postponement or reduction of fees is made. No notes are accepted under any circumstances.

There is also a diploma fee of \$5.00 for all Seniors.

#### PENALTY FOR LATE REGISTRATION

All fees are due and payable by the close of the day following the last day announced for registration. In the case of a graduate student, or a student granted late registration, fees must be paid within twenty-four hours of the date of registration as certified by the college dean or secretary. Failure to comply with this rule involves a penalty of \$5.00 for every succeeding day or fraction thereof.

The Ohio Union and the Women's Union. A fee of \$1.00 each Quarter is paid by all students at registration. This entitles the student to all the privileges of the Unions consistent with the Constitutions and House Rules governing them.

**Return of Fees.** Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary withdrawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all right to the return of any portion of the fees. In no case shall more than one-half the fee be refunded.

**Breakage and Incidental Charges.** Waste of material or destruction of apparatus in the laboratories or the destruction of college property in general, will be charged against the individual student, section, or class.

**Gymnasium Fee.** Students taking gymnasium work are required to pay a gymnasium fee of \$1.00 each Quarter, which includes locker and towel service.

**Expense of Books, Tools, and Instruments.** Students are required to provide themselves with the necessary textbooks, operating instruments, and laboratory tools before entering upon their several duties. The minimum cost of these is about \$30.00 for books and \$75.00 for tools in the first year; \$25.00 for books and \$175.00 for instruments in the second year, including dental engine. Books in the third year cost \$20.00.

Attention is called to the rule that all instruments found on the required list must bear the brand of accredited manufacturers. Instru-

ments otherwise purchased cannot be accepted. The required list of instruments used in all courses is revised every year and the same will be given to each student at the college office.

Materials that are used in the dental technic course are bought by the student.

The latest editions of textbooks on all subjects taught in the different departments can be purchased at the College. This is for the convenience of the students. Do not purchase textbooks until the teachers have been consulted.

**Rooms and Board.** Good rooms and board vary in cost with the location and environments. Comfortable living can be had for \$6.50 to \$8.00 a week. A list of boarding houses, within easy access of the College, at which good board and room can be secured at reasonable prices may be obtained at the office.

**Estimate of Expenses.** In order to furnish information, we have listed below an estimate of the average payments required by the University for the first year of the College of Dentistry and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Matriculation fee.....	\$ 10 00
Tuition fee, including laboratory deposit unreturnable	150 00
Ohio Union.....	3 00
Books.....	30 00
Tools.....	75 00
Board—36 weeks at \$8.00 a week.....	288 00
Room rent, at \$15.00 a month.....	135 00
General expenses.....	100 00
	<hr/>
Total.....	\$791 00

The item of general expenses in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

**Opportunities for Self-Help.** There are in the city many opportunities to obtain work, by which the student may add to his resources. During the summer many students secure remunerative employment in the city.

**Student Assistantships.** A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from the payment of tuition and other fees.

## ADMISSION

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The College is open on equal terms to both sexes.

### THE ENTRANCE BOARD

Admission of students into the College of Dentistry is in charge of the University Entrance Board, which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the University Examiner, The Ohio State University, Columbus, Ohio.

### REQUIREMENTS FOR ADMISSION

An applicant for admission to the College of Dentistry and for the degree of Doctor of Dental Surgery must be a graduate of a high school of the first grade, a normal school, or an accredited preparatory school and receive credit for fifteen entrance units, and have completed at least one year of instruction, forty-five Quarter hours or thirty semester hours, in an approved college of liberal arts and science. The year of college instruction must include at least English 9 hours, biology 9 hours, and chemistry 9 hours, or 6 hours each, respectively, on the semester basis. Physics must be presented for admission. This may be taken either in the high school or in an arts college.

For admission by certificate see the Bulletin of General Information.

### COURSE PRELIMINARY TO ADMISSION TO THE COLLEGE OF DENTISTRY

Under the statutes of Ohio, an applicant for admission to any dental college of the State must be a graduate of a high school of the first grade. For admission to the College of Dentistry of the Ohio State University he must also have credit for one year in a college of liberal arts (forty-five Quarter-credit hours or thirty semester hours), and in this must be included credits for the following courses:

General Zoology	401.....	5 hours
Anatomy	407.....	5 hours
Chemistry	401-402-403 or 411-412-413..	15 hours
English	401, 405.....	10 hours

For the selection of the remaining hours the candidate must conform as closely as possible with the requirements of the curriculum of the College of Arts as described in the announcements of the Arts College.

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NOTE—Students entering from other institutions must present credentials covering an equal amount of work in the subjects specified above.

**ADVANCED STANDING AND OTHER INFORMATION**

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**CREDIT FOR WORK DONE IN OTHER DENTAL COLLEGES**

Students from accredited dental colleges may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements.
2. They must present credentials from the proper officers of the dental college attended, showing that they were registered dental students and in residence for the time for which credit is sought, and that they have paid all financial obligations.
3. They must present official credentials of having completed a course of the same scope and extent as the course for which they seek credit. These credentials must be accompanied by a certificate from the dean or corresponding officer supporting the facts under seal of the college.



## COMBINATION COURSES

### ARTS-DENTISTRY

#### SEVEN YEARS

This course includes the first three years of the curriculum of the College of Arts, Philosophy, and Science and the four-year curriculum of the College of Dentistry. By fulfilling the conditions described below, the degree of Bachelor of Arts and the degree of Doctor of Dental Surgery may be obtained in seven years.

**Admission to the College of Arts, Philosophy, and Science.** For admission to the College of Arts, the applicant must present to the Entrance Board a certificate of graduation from a first-grade high school or from a preparatory school of approved standing, or he must pass an examination upon 15 units of college entrance subjects. It is strongly urged that the high-school course should conform as closely as possible to the model course described in the announcements of the College of Arts. (For details consult the Bulletin of General Information.)

**Residence in the College of Arts, Philosophy, and Science.** During the three years of residence in the College of Arts, the candidate must meet the following requirements:

(1) He must secure credit for a total of 145 Quarter-credit hours, including the requirements in military science, physical education, and hygiene.

(2) No part of the curriculum in Dentistry may be counted as a part of these 145 hours.

(3) These 145 hours must include the following: (a) The requirement in foreign language of the College of Arts; (b) English 401 and five hours elective work in English; (c) biology, 10 hours, including Zoology 401, 5 hours, and Comparative Anatomy 407, 5 hours; (d) Chemistry 401-402-403 or 411-412-413, 15 hours; (e) Physics 401-402, 10 hours (unless the student has had physics in the high school); (f) Psychology 401-402, 10 hours; (g) social science, 10 hours in some one topic.

(4) The last full year of this Arts work must be done in the Arts College of the Ohio State University.

**Residence in the College of Dentistry.** Upon completion of the requirements enumerated in the preceding paragraph, the candidate must register in the College of Dentistry (through the Entrance Board), and at the same time retain his registration in the College of Arts. To secure this double registration, application should be made to the Secretary of the College of Arts.

**Requirements in Points and Hours.** To be eligible for the degree of Bachelor of Arts, the candidate must have secured 261 points and 145 hours credit in courses in the College of Arts, including the requirements in military science, physical education, and hygiene, and 82.8 points and 46 hours in the first year in the course in Dentistry, making a total of 343.8 points and 191 hours.

Any deficiency in points upon the completion of the first year in Dentistry must be made up by taking additional courses in the College of Arts.

**Degrees.** Upon completing the 191 hours and the 343.8 points as described above, the candidate will be recommended for the degree of Bachelor of Arts; and upon fulfilling all the requirements of the curriculum of the College of Dentistry he will be recommended for the degree of Doctor of Dental Surgery.

## SCIENCE-DENTISTRY

### SIX YEARS

This course comprises the first two years of the curriculum of the College of Arts, Philosophy, and Science and the four-year curriculum of the College of Dentistry. By fulfilling the conditions described below it is possible to obtain the degree of Bachelor of Science and the degree of Doctor of Dental Surgery within a period of six years.

**Admission to the College of Arts, Philosophy, and Science.** For admission to the College of Arts, the candidate must present to the Entrance Board a certificate of graduation from a first-grade high school or from a preparatory school of approved standing, or he must pass an examination upon 15 units of college entrance subjects. It is strongly urged that the high-school course should conform as closely as possible to the model course described in the announcements of the College of Arts. (For details consult the Bulletin of General Information.)

**Residence in the College of Arts, Philosophy, and Science.** During the two years of residence in the College of Arts the candidate must meet all of the requirements of the curriculum of the College of Arts for the first two years as described in the announcements of the Arts College, and at the same time comply with the requirements for admission to the College of Dentistry as stated on page 13.

The last full year of this Arts work must be done in the Arts College of the Ohio State University.

**Residence in the College of Dentistry.** Upon completion of the requirements described above, the candidate transfers to the College of Dentistry (through the Entrance Board), at the same time retaining his registration in the College of Arts. To secure this double registration, application should be made to the Secretary of the College of Arts. Registration as a student in Science-Dentistry is continued for two years.

**Requirements in Points and Hours.** To be eligible for the degree of Bachelor of Science at the end of the second year of residence in the College of Dentistry, the candidate must have secured credit for 100 Quarter-credit hours, including the requirements in military science, physical education, and hygiene, and for 180 points in the College of Arts, and for 99 hours and 178.2 points in the College of Dentistry, making a total of 199 hours and 358.2 points.

Any deficiency in points upon the completion of the second year in the College of Dentistry must be made up by taking additional courses in the College of Arts.

**Degrees.** When the candidate has met all the requirements described above, namely, 199 hours and 358.2 points distributed as has been indicated, he will be recommended for the degree of Bachelor of Science; and when he has completed all the requirements of the curriculum of the College of Dentistry he will be recommended for the degree of Doctor of Dental Surgery.

The combination courses of Science-Dentistry and Arts-Dentistry are open to students of accredited colleges and universities. Each college must determine, however, the time of residence required before matriculating in the College of Dentistry and the required residence in the Dental College before granting the academic degree.

# THE COLLEGE OF DENTISTRY

## CURRICULUM

Based on one year of pre-dental college work

### FIRST YEAR

AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER
Prosthesis.....(401) 4	Prosthesis.....(402) 4	Prosthesis..... (403) 3
Prosthetic Technic	Prosthetic Technic	Prosthetic Technic
Anatomy.....(431) 4	Anatomy.....(432) 4	Anatomy..... (433) 5
Human Anatomy	Human Anatomy	Human Anatomy
Engineering Drawing..(414) 2	Operative Dentistry..(402) 2	Operative Dentistry..(403) 3
Dental Drawing	Dental Anatomy	Dental Anatomy
Chemistry.....(441) 3	Chemistry.....(442) 3	Physiology..... (604) 6
Organic Chemistry	Organic Chemistry	
Chemistry.....(444) 2	Chemistry.....(445) 2	
Organic Laboratory	Organic Laboratory	

### SECOND YEAR

Anatomy.....(434) 3	Anatomy.....(435) 3	Anatomy..... (436) 4
Histology	Histology	Histology and Embryology
Operative Dentistry..(405) 3	Operative Dentistry..(406) 3	Bacteriology.....(450) 5
Technic	Technic	Prosthesis.....(407) 2
Physiology..... (605) 6	Physiology.....(606) 6	Prosthetic Technic
Prosthesis..... (405) 3	Prosthesis.....(406) 3	Prosthesis.....(428) 2
Prosthetic Technic	Prosthetic Technic	Crown and Bridge Technic
Prosthesis.....(421) 2	Prosthesis.....(422) 2	Prosthesis.....(419) 2
Crown and Bridge Technic	Crown and Bridge Technic	Dental Metallurgy
		Physiological Chem... (401) 3
		Bio-Chemistry

### THIRD YEAR

Operative Dentistry... (421) 1	Operative Dentistry... (422) 1	Operative Dentistry... (423) 2
Medicine	Medicine	Medicine
Operative Dentistry... (417) 3	Operative Dentistry... (418) 3	Operative Dentistry... (419) 1
Oral Hygiene	Oral Hygiene	Porcelain
Operative Dentistry... (408) 5	Operative Dentistry... (410) 5	Operative Dentistry... (411) 5
Principles, Practice, Exodontia and X-Ray	Principles, Practice, Exodontia and X-Ray	Principles, Practice, Exodontia and X-Ray
Pathology.....(450) 3	Pathology.....(451) 3	Pathology..... (452) 2
General Pathology	General Pathology	Dental Pathology
Prosthesis.....(409) 3	Prosthesis.....(410) 3	Prosthesis.....(411) 3
Principles and Practice	Principles and Practice	Principles and Practice
Prosthesis.....(425) 2	Prosthesis.....(426) 2	Prosthesis..... (427) 2
Crown and Bridge Technic and Principles	Crown and Bridge Technic and Principles	Crown and Bridge Technic and Principles
		Operative Dentistry... (481) 2
		Orthodontia Technic



## FOURTH YEAR

AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER
Operative Dentistry... (437) 2	Operative Dentistry... (438) 2	Operative Dentistry... (439) 2
Anesthesia	Anesthesia	Anesthesia
Operative Dentistry... (441) 1	Operative Dentistry... (442) 1	Operative Dentistry... (443) 1
Ethics, Economics,	Ethics, Economics,	Ethics, Economics,
History, Jurisprudence	History, Jurisprudence	History, Jurisprudence
Operative Dentistry... (425) 2	Operative Dentistry... (426) 2	Operative Dentistry... (427) 2
Medicine	Medicine	Medicine
Operative Dentistry... (445) 2	Operative Dentistry... (446) 2	Operative Dentistry... (447) 2
Oral Surgery	Oral Surgery	Oral Surgery
Operative Dentistry... (433) 2	Operative Dentistry... (434) 2	Operative Dentistry... (435) 2
Orthodontia Principles	Orthodontia Principles	Orthodontia Principles
and Practice	and Practice	and Practice
Operative Dentistry... (418) 4	Operative Dentistry... (414) 4	Operative Dentistry... (415) 4
Principles and Practice	Principles and Practice	Principles and Practice
Prosthesis..... (413) 2	Prosthesis..... (414) 2	Prosthesis..... (415) 2
Prosthetic Dentistry	Prosthetic Dentistry	Prosthetic Dentistry
Practice	Practice	Practice
Prosthesis..... (429) 2	Prosthesis..... (430) 2	Prosthesis..... (431) 2
Crown and Bridge Technic	Crown and Bridge Technic	Crown and Bridge Technic
and Practice	and Practice	and Practice

### REQUIREMENTS FOR GRADUATION

At the close of the fourth year a student who has completed the curriculum of this College will receive the degree of Doctor of Dental Surgery, on the following conditions:

1. He must be twenty-one years of age, and of good moral character, which includes good conduct in college.

2. He must have obtained satisfactory standing in all the branches of the curriculum.

3. He must have attended four full years, the last of which is taken in this College.

Graduates in dentistry of other institutions are required to attend one full year and comply with all the regulations of the fourth year in order to receive the degree of Doctor of Dental Surgery from this College.

4. He must have attended at least 85 percent of the scheduled appointments.

5. He must have discharged all his financial obligations to this College, and to any other dental college which he may have attended.

6. He must be present at the time and place scheduled by the Dean for final examinations, and his absence from an examination in a given subject will indicate failure in that subject and will be entered as such against him.

7. If he fails to graduate he may, at the discretion of the executive committee, repeat the next session and shall take such subjects as the Dean may direct.

### ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 percent of the scheduled hours. The margin of 15 percent is allowed to provide against serious illness or other unavoidable absence, and must never be approached except under such circumstances. Regular attendance upon all scheduled work is required, and the executive committee is authorized to place on probation or recommend for dismissal any student who violates this rule without good cause. Absences just preceding or following vacations are subject to especially rigid investigations.

### GRADES

A student who has attended less than 85 percent of the hours scheduled for any subject is not eligible for examination and shall receive no credit.

Value of grades: A (Excellent or unusually good) 95-100; B (Good) 90-95; C (Average) 85-90; D (Poor but passing) 75-85; E (Failure).

When a student fails after repeating a course, he shall have no further privilege of instruction or examination in this College except by special vote of the executive committee.

FRESHMAN..... 1272

AUTUMN QUARTER		WINTER QUARTER		SPRING QUARTER	
Prosthesis..... (401)	(4) 1-9	Prosthesis..... (402)	(4) 1-9	Prosthesis..... (408)	(8) 1-6
Anatomy..... (431)	(4) 1-9	Anatomy..... (432)	(4) 1-9	Anatomy..... (433)	(8) 2-10
Engineering Drawing..... (414)	(2) 0-6	Operative Dentistry..... (402)	(2) 1-3	Operative Dentistry..... (408)	(8) 1-6
Chemistry (Organic)..... (441 and 444)	(5) 3-6	Chemistry (Organic)..... (442 and 445)	(5) 3-6	Physiology..... (604)	(6) 3-9
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SOPHOMORE..... 1272

Anatomy..... (434)	(3) 1-4	Anatomy..... (435)	(3) 1-4	Anatomy..... (436)	(4) 2-4
Operative Dentistry..... (405)	(3) 1-6	Operative Dentistry..... (406)	(3) 1-6	Bacteriology..... (450)	(5) 2-9
Physiology..... (605)	(6) 3-9	Physiology..... (606)	(6) 3-9	Physiology..... (401)	(3) 2-3
Prosthesis..... (406)	(3) 1-6	Prosthesis..... (406)	(3) 1-6	Prosthesis..... (407)	(2) 1-3
Prosthesis..... (421)	(2) 1-3	Prosthesis..... (422)	(2) 1-3	Prosthesis..... (423)	(2) 1-3
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JUNIOR..... 1332

Operative Dentistry..... (421)	(1) 1-0	Operative Dentistry..... (422)	(1) 1-0	Operative Dentistry..... (423)	(2) 1-3
Operative Dentistry..... (417)	(3) 1-6	Operative Dentistry..... (418)	(3) 1-6	Operative Dentistry..... (419)	(1) 0-3
Operative Dentistry..... (409)	(5) 2-9	Operative Dentistry..... (410)	(5) 2-9	Operative Dentistry..... (411)	(5) 2-9
Pathology..... (450)	(3) 1-6	Pathology..... (451)	(3) 1-6	Pathology..... (452)	(2) 1-3
Prosthesis..... (409)	(3) 1-6	Prosthesis..... (410)	(3) 1-6	Prosthesis..... (411)	(3) 1-6
Prosthesis..... (425)	(2) 1-3	Prosthesis..... (426)	(2) 1-3	Prosthesis..... (427)	(2) 1-3
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SENIOR..... 1404

Operative Dentistry..... (437)	(2) 1-3	Operative Dentistry..... (438)	(2) 1-3	Operative Dentistry..... (439)	(2) 1-3
Operative Dentistry..... (441)	(1) 1-0	Operative Dentistry..... (442)	(1) 1-0	Operative Dentistry..... (443)	(1) 1-0
Operative Dentistry..... (425)	(2) 1-3	Operative Dentistry..... (426)	(2) 1-3	Operative Dentistry..... (427)	(2) 1-3
Operative Dentistry..... (445)	(2) 1-3	Operative Dentistry..... (446)	(2) 1-3	Operative Dentistry..... (447)	(2) 1-3
Operative Dentistry..... (433)	(2) 1-3	Operative Dentistry..... (434)	(2) 1-3	Operative Dentistry..... (435)	(2) 1-3
Operative Dentistry..... (413)	(4) 1-9	Operative Dentistry..... (414)	(4) 1-9	Operative Dentistry..... (415)	(4) 1-9
Prosthesis..... (413)	(2) 0-6	Prosthesis..... (414)	(2) 0-6	Prosthesis..... (415)	(2) 0-6
Prosthesis..... (429)	(2) 0-6	Prosthesis..... (430)	(2) 0-6	Prosthesis..... (431)	(2) 0-6
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# DEPARTMENTS OF INSTRUCTION

## ANATOMY

Office, Medical Research Building

PROFESSOR LANDACRE, ASSISTANT PROFESSORS BUCK, KNOUFF, AND BAKER, AND DEPARTMENT ASSISTANTS

**431. Human Anatomy.** Four credit hours. Autumn Quarter. One recitation and nine laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker, and assistants.

The gross anatomy of the abdomen and leg including the osteology of these parts.

This course is not open to students who have credit for Anatomy 125.

**432. Human Anatomy.** Four credit hours. Winter Quarter. One recitation and nine laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker, and assistants.

The gross anatomy of the thorax and arm including the osteology of these parts.

This course is not open to students who have credit for Anatomy 125 and 126.

**433. Human Anatomy.** Five credit hours. Spring Quarter. Two recitations and ten laboratory hours each week. First year, Dentistry. Dr. Buck, Mr. Baker, and assistants.

The gross anatomy of the head and neck including the osteology of these parts and the applied anatomy.

This course is not open to students who have credit for Anatomy 126 and 131.

**434. Histology.** Three credit hours. Autumn Quarter. One recitation and four laboratory hours each week. Second year, Dentistry. Dr. Landacre, Mr. Knouff, and assistants.

The general histology of the tissues and the special histology of the skeletal and vascular systems.

This course is not open to students who have credit for Anatomy 139.

**435. Histology.** Three credit hours. Winter Quarter. One recitation and four laboratory hours each week. Second year, Dentistry. Dr. Landacre, Mr. Knouff, and assistants.

The special histology of the digestive, respiratory, urinary, and nervous systems.

This course is not open to students who have credit for Anatomy 139 and 140.

**436. Histology and Embryology.** Four credit hours. Spring Quarter. Two recitations and four laboratory hours each week. Second year, Dentistry. Dr. Landacre, Mr. Knouff, and assistants.



The histology of the reproductive system, the general embryology of the vertebrate body with special reference to the development of teeth and pharyngeal derivatives.

This course is not open to students who have credit for Anatomy 140 and 141.

### BACTERIOLOGY

Office, 202 Veterinary Laboratory Building

PROFESSOR MORREY, DR. SPEER, AND DEPARTMENT ASSISTANTS

450. Bacteriology. Five credit hours. Spring Quarter. Two recitations and nine laboratory hours each week. Second year, Dentistry. Dr. Speer and assistants.

The study of bacteria with reference to morphology, staining, growth on culture media, effect of physical and chemical environment, action on their food material. Principles of disinfection and sterilization. Some of the pathogenic organisms of the mouth cavity and of the eye are studied.

This course is not open to students who have credit for Bacteriology 150.

### CHEMISTRY

Office, 100 Chemistry Building

PROFESSOR McPHERSON, ASSISTANT PROFESSOR BOORD, AND DEPARTMENT ASSISTANTS

441-442. Organic Chemistry. Three credit hours. Autumn and Winter Quarters. Three lectures each week. First year, Dentistry. Prerequisite, one year of general chemistry including qualitative analysis. Mr. McPherson.

This is a general introductory course in organic chemistry arranged for students in the College of Dentistry.

This course is not open to students who have credit for Chemistry 150.

444-445. Organic Chemistry. Two credit hours. Autumn and Winter Quarters. Six laboratory hours each week. First year, Dentistry. Prerequisite or concurrent, Chemistry 441-442. Mr. Boord and assistants.

This course consists in the preparation of typical organic compounds and their purification. Insofar as possible, the compounds prepared are those of interest to dental students.

### ENGINEERING DRAWING

Office, 205 Brown Hall

PROFESSOR FRENCH, MR. PAFFENBARGER

414. Dental Drawing. Two credit hours. Autumn Quarter. Six laboratory hours each week. First year, Dentistry. Mr. Paffenbarger.

Practice in the use of drawing instruments, elementary projections, and a type of instruction of interest to dental students.

This course is not open to students who have credit for Engineering Drawing 101.

**MILITARY SCIENCE AND TACTICS**

Office, 710 North Park Street

MAJOR LESTER C. OGG, DENTAL CORPS, U. S. A.

451-452-453. **Military Science and Tactics: Basic Course.** One credit hour. Autumn, Winter, Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, first year, Dentistry. Major Ogg.

Medico-military instruction, including the organization and administration of the Army, the relation of the Medical Department therein, with special reference to the Dental Corps. History of military art, including history of medicine, dentistry, and military dentistry. Army regulations. Customs and courtesies of the service. Discipline and leadership. Individual equipment. Personal hygiene. Venereal disease. Elementary first aid.

454-455-456. **Military Science and Tactics: Basic Course.** One credit hour. Autumn, Winter, Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, second year, Dentistry. Major Ogg.

Tactics of combatant and medical troops. Mapping and topography. Interior organization and administration of companies. Ballistic. Medical history of campaigns. Transportation methods and supply of troops. Hygiene of camps and barracks. First aid.

557-558-559. **Military Science and Tactics: Advanced Course.** One credit hour. Autumn, Winter, Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, third year, Dentistry. Major Ogg.

Functions of the Medical Department. General military sanitation. Army regulations. Medical tactics. Achievements of military surgeons. Dental paper work, including reports, records, and special regulations.

560-561-562. **Military Science and Tactics: Advanced Course.** One credit hour. Autumn, Winter, Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, fourth year, Dentistry. Major Ogg.

Military law and rules of land warfare. Chemical warfare service. Hospitals and hospitalization. Staff relationship. Civil and military methods in the control of disease. Medical tactics and problems. Advanced first aid, including dental splints and their application. Dental equipment, including the process of obtaining and disposition of dental equipment in combat.

**SUMMER CAMP**

The summer camp for advanced course students, Dental Unit, Reserve Officers' Training Corps, is conducted at the Medical Field Service School, Carlisle Barracks, Pa. The camp is of six weeks' duration and the work is mostly practical. In addition to military work, field sports and competitions are conducted.

## OPERATIVE DENTISTRY

Office, 710 North Park Street

PROFESSOR SEMANS, ASSISTANT PROFESSORS GRAHAM, HEBBLE, AND WILTBERGER, DR. J. W. MEANS, DR. MARTINDALE, DR. STROSNIDER, DR. BOTTENHORN, DR. SNYDER, DR. MOBBERLY, DR. STARR, DR. JONES, DR. REIF

402. Dental Anatomy. Two credit hours. Winter Quarter. One lecture or quiz and three laboratory hours each week. First year, Dentistry. Dr. Semans, Dr. Strosnider.

Descriptive human dental anatomy, sketching of natural teeth and the adjacent parts.

403. Dental Anatomy and Operative Technic. Three credit hours. Spring Quarter. One lecture or quiz and six laboratory hours each week. First year, Dentistry. Dr. Semans, Dr. Strosnider, Dr. Reif.

Sectioning of natural teeth; and natural teeth reproduced by molding and carving in various materials; preparation and filling of root canals of extracted teeth.

This course is not open to students who have credit for Operative Dentistry 145.

405-406. Operative Technic. Three credit hours. Autumn and Winter Quarters. One lecture or quiz and six laboratory hours each week. Second year, Dentistry. Dr. Semans, Dr. Strosnider, Dr. Reif.

Shaping of cavities in models in natural size tooth forms, and filling the same with each kind of filling material.

This course is not open to students who have credit for Operative Dentistry 110.

409-410-411. Principles and Practice of Operative Dentistry. Five credit hours. Autumn, Winter, Spring Quarters. Two lectures or quizzes and nine clinical hours each week. Third year, Dentistry. Prerequisite, Operative Dentistry 406. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Snyder, Dr. Reif.

The study of and practical work in all methods, appliances, and materials used in filling teeth; and the study of various conditions of the tooth and its adjacent parts with practical demonstrations and tests by use of X-Ray.

This course is not open to students who have credit for Operative Dentistry 126.

413-414-415. Principles and Practice of Operative Dentistry. Four credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and nine clinical hours each week. Fourth year, Dentistry. Prerequisite, Operative Dentistry 411. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Snyder, Dr. Reif.

The study of and clinical work in all modern methods of restoration of the natural tooth. Self assurance in the care and management of patients is thoroughly taught in this course.

417-418. Oral Hygiene. Three credit hours. Autumn and Winter Quarters. One lecture or quiz and six clinical hours each week. Third year, Dentistry. Dr. Graham and clinical instructors.

Hygiene of the mouth and teeth. A study of the relation of bacteria to caries of teeth and diseases of the mouth; the practical use of disinfectants, antiseptics, and germicides; instrument sterilization and general prophylaxis.

This course is not open to students who have credit for Operative Dentistry 135.

419. Porcelain Technic. One credit hour. Spring Quarter. Three laboratory hours each week, supplemented by six lecture or quiz hours. Third year, Dentistry. Dr. Wiltberger.

A study of the composition and grades of porcelain and the methods of using it in all phases of dentistry.

This course is not open to students who have credit for Operative Dentistry 124.

421-422. Dental Medicine. One credit hour. Autumn and Winter Quarters. One lecture or quiz each week. Third year, Dentistry. Dr. Graham.

A study of medicinal agents used in dentistry.

This course is not open to students who have credit for Operative Dentistry 131.

423. Dental Medicine. Two credit hours. Spring Quarter. One lecture or quiz and three clinical hours each week. Third year, Dentistry. Prerequisite, Operative Dentistry 422. Dr. Graham and clinical instructors.

This is a continuation of Operative Dentistry 422 with clinical demonstrations.

This course is not open to students who have credit for Operative Dentistry 132.

425-426-427. Dental Medicine. Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three clinical hours each week. Fourth year, Dentistry. Prerequisite, Operative Dentistry 423. Dr. Graham and clinical instructors.

A more advanced course, and continuous with Operative Dentistry 423.

431. Orthodontia Principles and Technic. Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Third year, Dentistry. Dr. Jones.

Freehand soldering, soldering and adjusting combination appliances and making accurate models. Work illustrated by charts, models, and practical demonstrations.

This course is not open to students who have credit for Operative Dentistry 118.

433-434-435. Orthodontia Principles and Practice. Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three lab-



oratory or clinical hours each week. Fourth year, Dentistry. Prerequisite, Operative Dentistry 431. Dr. Jones.

The etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, methods and appliances for the correction of malposed teeth and correction in relation to harmony of the facial lines.

437-438-439. Anesthetics. Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three clinical hours each week. Fourth year, Dentistry. Dr. Martindale, Dr. Snyder.

A study of the use, administration, and dangers of anesthetics as used for all purposes in dentistry.

441-442-443. Ethics, Economics, History, and Jurisprudence. One credit hour. Autumn, Winter, Spring Quarters. Fourth year, Dentistry. Dr. Semans.

Business training, ideals, dental history, and standards of professional conduct are taught in this course.

445-446-447. Oral Surgery. Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three clinical hours each week. Fourth year, Dentistry. Dr. Means, Dr. Martindale, Dr. Snyder.

The pathologic condition of the face, jaws, oral cavity, and related structures, with clinical demonstrations.

## PATHOLOGY

Office, 710 North Park Street

PROFESSOR SCOTT, DR. BOTTENHORN, DR. VAN BUSKIRK

450-451. General Pathology. Three credit hours. Autumn and Winter Quarters. One lecture and six laboratory hours each week. Third year, Dentistry. Dr. Van Buskirk, Dr. Bottenhorn.

General pathology, including the etiology of diseases, disturbances of nutrition, inflammations, regenerations, and tumors.

This course is not open to students who have credit for Pathology 135.

452. Dental Pathology. Two credit hours. Spring Quarter. One lecture and three laboratory or clinical hours each week. Third year, Dentistry. Prerequisite, Pathology 450-451. Dr. Bottenhorn.

The study of pathological lesions within and about the teeth, with clinical demonstrations.

This course is not open to students who have credit for Pathology 144.

**PHYSIOLOGICAL CHEMISTRY, PHARMACOLOGY,  
AND MATERIA MEDICA**

Office, 710 North Park Street

PROFESSOR SMITH

**401. Physiological Chemistry.** Three credit hours. Spring Quarter. One lecture, one quiz, and three laboratory hours each week. Second year, Dentistry. Prerequisite, general chemistry, qualitative analysis, and organic chemistry. Dr. Smith and assistants.

The chemistry of carbohydrates, lipins, and proteins, together with a study of the chemistry of digestion and excretions.

**PHYSIOLOGY**

Office, 710 North Park Street

PROFESSOR HOSKINS, ASSISTANT PROFESSORS SEYMOUR AND  
McPEEK, MR. DURRANT

**604. Advanced Physiology.** Six credit hours. Spring Quarter. Three lecture or quiz hours and ten laboratory hours each week. First year, Dentistry. Prerequisites, Physiology 403, 404, and 405, or equivalent biological training. Dr. Hoskins, Dr. Seymour, Dr. McPeek, Mr. Durrant, and assistants.

The course deals with the physiology of the contractile tissues and of the nervous system. The course is based upon animal experimentation by the students, supplemented by demonstrations by the instructors. The bearing of the data obtained upon clinical phenomena is considered.

This course is not open to students who have credit for Physiology 121 or 601.

**605. Advanced Physiology.** Six credit hours. Autumn Quarter. Three lecture or quiz hours and ten laboratory hours each week. Second year, Dentistry. Prerequisite, Physiology 604. Dr. Hoskins, Dr. Seymour, Dr. McPeek, Mr. Durrant, and assistants.

This is a continuation of Physiology 604, dealing with the receptor mechanisms, lymph, blood, and circulation.

This course is not open to students who have credit for Physiology 121, 122, or 602.

**606. Advanced Physiology.** Six credit hours. Winter Quarter. Three lecture or quiz hours and ten laboratory hours each week. Second year, Dentistry. Prerequisites, Physiology 604 and 605. Dr. Hoskins, Dr. Seymour, Dr. McPeek, Mr. Durrant, and assistants.

This is a continuation of Physiology 604 and 605, dealing with respiration, digestion, excretion, metabolism, and dietetics.

This course is not open to students who have credit for Physiology 121, 122, or 603.

## PROSTHESIS

Office, 710 North Park Street

PROFESSOR COTTRELL, ASSISTANT PROFESSOR WILTBERGER,  
DR. SHUMWAY, DR. MOBBERLY, DR. STARR, DR. BAKER

**401-402. Prosthetic Dentistry Technic.** Four credit hours. Autumn and Winter Quarters. One lecture or quiz and nine laboratory hours each week. First year, Dentistry. Dr. Cottrell, Dr. Shumway, Dr. Baker.

The foundation principles in restoration of lost teeth by means of plates. Laboratory work correlates with didactic.

This course is not open to students who have credit for Prosthesis 101.

**403. Prosthetic Dentistry Technic.** Three credit hours. Spring Quarter. One lecture or quiz and six laboratory hours each week. First year, Dentistry. Dr. Cottrell, Dr. Shumway, Dr. Baker.

This is a continuation of Prosthesis 402.

This course is not open to students who have credit for Prosthesis 102.

**405-406. Prosthetic Dentistry Technic.** Three credit hours. Autumn and Winter Quarters. One lecture or quiz and six laboratory hours each week. Second year, Dentistry. Prerequisite, Prosthesis 403. Dr. Cottrell, Dr. Shumway, Dr. Baker.

This work aims to develop an artistic sense in students that may be thoroughly prepared to restore not only lost organs but lost features, and to rebuild symbols of individuality and character.

This course is not open to students who have credit for Prosthesis 103.

**407. Prosthetic Dentistry Technic.** Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Second year, Dentistry. Dr. Cottrell, Dr. Shumway, Dr. Baker.

This is a continuation of Prosthesis 406.

This course is not open to students who have credit for Prosthesis 104.

**409-410. Prosthetic Dentistry Principles and Practice.** Three credit hours. Autumn and Winter Quarters. One lecture or quiz and six laboratory hours or clinical hours each week. Third year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Shumway, Dr. Baker.

This is a continuation of Prosthesis 407, with simple cases in practical work.

This course is not open to students who have credit for Prosthesis 117.

**411. Prosthetic Dentistry Principles and Practice.** Three credit hours. Spring Quarter. One lecture or quiz and six clinical hours each week. Third year, Dentistry. Dr. Cottrell, Dr. Mobberly, Dr. Baker.

This is a continuation of Prosthesis 410.

This course is not open to students who have credit for Prosthesis 118.

413-414-415. **Prosthetic Dentistry Practice.** Two credit hours. Autumn, Winter, Spring Quarters. Six clinical hours each week. Fourth year, Dentistry. Prerequisite, Prosthesis 411. Dr. Cottrell, Dr. Shumway, Dr. Baker.

Clinical practice in all modern methods of restoration of lost parts.

419. **Dental Metallurgy.** Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Second year, Dentistry. Dr. Starr.

A study of the metals and their ores used in dentistry.

This course is not open to students who have credit for Prosthesis 132.

421-422-423. **Crown and Bridge Technic.** Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three laboratory hours each week. Second year, Dentistry. Dr. Wiltberger, Dr. Starr.

Elementary course in technical work in crowns and bridges.

This course is not open to students who have credit for Prosthesis 105 and 106.

425-426-427. **Crown and Bridge Technic.** Two credit hours. Autumn, Winter, Spring Quarters. One lecture or quiz and three laboratory hours each week. Third year, Dentistry. Prerequisite, Prosthesis 423. Dr. Wiltberger, Dr. Mobberly, Dr. Starr.

Instruction in the foundation principles of lost parts by means of crowns and bridges.

This course is not open to students who have credit for Prosthesis 107 and 112.

429-430-431. **Crown and Bridge Technic and Practice.** Two credit hours. Autumn, Winter, Spring Quarters. Six laboratory or clinical hours each week. Fourth year, Dentistry. Prerequisite, Prosthesis 427. Dr. Wiltberger, Dr. Mobberly, Dr. Starr.

Continuation of technical and practical work in all methods of restoring lost parts by crowns and bridges.







OHIO STATE UNIVERSITY  
BULLETIN

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