

CHAPTER I
THE DISCOVERY OF AMERICA
The first discovery of America was made by Christopher Columbus in 1492. He sailed from Spain in search of a westward route to the Indies. On October 12, 1492, he landed on the island of San Salvador in the West Indies. This event marked the beginning of European exploration and settlement in the Americas.

CHAPTER II
THE EARLY YEARS OF THE COLONIES
The early years of the colonies were marked by struggle and hardship. The settlers faced a harsh environment, lack of resources, and conflicts with Native Americans. Despite these challenges, the colonies grew and developed, laying the foundation for the future United States.

CHAPTER III
THE STRUGGLE FOR INDEPENDENCE
The struggle for independence began in the 1760s, as the colonies resisted British taxation and control. The American Revolutionary War (1775-1783) culminated in the signing of the Declaration of Independence on July 4, 1776. The war ended with the British evacuation of New York City and the signing of the Treaty of Paris in 1783, which recognized the United States as an independent nation.

CHAPTER IV
THE EARLY YEARS OF THE UNION
The early years of the Union were marked by the challenges of building a new government and a unified nation. The Constitution was drafted in 1787 and ratified in 1788. The early years saw the growth of the economy and the expansion of the territory, but also the beginning of sectional tensions that would eventually lead to the Civil War.

COLLEGE OF DENTISTRY

1934-1935

**THE OHIO STATE UNIVERSITY
COLUMBUS**

COLLEGE OF DEPARTMENT

1884-85

THE NEW YORK STATE DEPARTMENT
OF EDUCATION

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CALENDAR FOR 1984																											
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UNIVERSITY CALENDAR

1934

SUMMER QUARTER

May 31 to June 2
June 16 to 23
June 18

June 19
June 23
July 4
July 23, 24, 25
July 20, 21
July 25
July 26
July 28
August 29, 30, 31
August 31
August 31

Entrance Examinations.
Physical Examinations for all new students.
Latest day for registration and payment of fees without penalty. (See page 13.)
Classes begin, 7:30 A.M.
Intelligence Test for all new students (Saturday P.M.)
Independence Day. No classes.
Final Examinations, first term (at regular class hours).
Physical Examinations for all new students.
First term ends, 5:30 P.M.
Second term begins, 7:30 A.M.
Intelligence Test for all new students (Saturday P.M.).
Final Examinations (at regular class hours).
Summer Convocation (Commencement), 2:00 P.M.
Summer Quarter ends, 6:00 P.M.

AUTUMN QUARTER

September 27 to 29
September 26 to October 1
October 1
October 1

October 2
October 6

November 11
November 29, 30, December 1
December 19, 20, 21, 22
December 21
December 22

Entrance Examinations.
Freshman Week.
Physical Examinations for students other than Freshmen.
Latest day for registration and payment of fees without penalty. (See page 13.)
Classes begin, 8:00 A.M.
Intelligence Test for all new students other than Freshmen (Saturday A.M.).
Armistice Day.
Thanksgiving Reces.
Final Examinations.
Autumn Convocation (Commencement), 2:00 P.M.
Autumn Quarter ends, 6:00 P.M.

1935

WINTER QUARTER

January 2 to 5
January 2

January 3
January 5
February 22
March 13, 14, 15, 16
March 15
March 16

Physical Examinations for all new students.
Latest day for registration and payment of fees without penalty. (See page 13.)
Classes begin, 8:00 A.M.
Intelligence Test for all new students (Saturday A.M.).
University Day. No classes.
Final Examinations.
Winter Convocation (Commencement), 2:00 P.M.
Winter Quarter ends, 6:00 P.M.

SPRING QUARTER

March 25

March 26
March 25 to 29
March 30
May 29
May 30
June 5, 6, 7, 8
June 8
June 9
June 10
June 10
June 10
June 17
August 30
October 1

Latest day for registration and payment of fees without penalty. (See page 13.)
Classes begin, 8:00 A.M.
Physical Examinations for all new students.
Intelligence Test for all new students (Saturday A.M.).
R. O. T. C. Review and Presentation of Commissions.
Memorial Day. No classes.
Final Examinations.
Alumni Day.
Baccalaureate Sermon.
Class Day.
Spring Convocation (Commencement).
Spring Quarter ends.
Summer Quarter (1935) begins.
Summer Quarter (1935) ends.
Autumn Quarter (1935) classes begin.

ADMINISTRATION

BOARD OF TRUSTEES

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HARRY A. CATON, Vice-Chairman.....	Coshocton
JULIUS F. STONE.....	Columbus
LAWRENCE E. LAYBOURNE.....	Springfield
JOHN KAISER.....	Marietta
NEWTON D. BAKER.....	Cleveland
M. EDITH CAMPBELL.....	Cincinnati

ADMINISTRATIVE OFFICERS

President.....	GEORGE W. RIGHTMIRE
Office: Administration Building—UN-3148; Campus 312	
Residence: Ohio State University Campus—UN-3148; Campus 274	
Secretary of the Board of Trustees and Business Manager.....	CARL E. STEEB
Office: Administration Building—UN-3148; Campus 332	
Residence: 198 W. 11th Ave.—UN-4732	
Vice President.....	J. LEWIS MORRILL
Office: Administration Building—UN-3148; Campus 628	
Residence: 459 W. 8th Ave.—UN-9427	
Assistant to the President.....	GEORGE W. ECKELBERRY
Office: Administration Building—UN-3148; Campus 380	
Residence: 2023 Collingswood Rd., Upper Arlington—KI-1343	
Registrar, University Editor, Secretary of the University Faculty, and Alumni Recorder.....	EDITH D. COCKINS
Office: Administration Building—UN-3148; Campus 314, 459	
Residence: 1580 Guilford Rd., Upper Arlington—KI-2726	
University Examiner.....	BLAND L. STRADLEY
Office: Administration Building—UN-3148; Campus 412	
Residence: Canal Winchester—Canal Winchester Ex. 71	
Executive Clerk.....	KATHERINE A. VOGEL
Office: Administration Building—UN-3148; Campus 312	
Residence: 1040 Elmwood Ave.—KI 5883	
Comptroller.....	CHARLES A. KUNTZ
Office: Administration Building—UN-3148; Campus 332	
Residence: 123 Jeffrey Pl.—LA-3606	
Cashier.....	FLORIS D. HANE
Office: Administration Building—UN-3148; Campus 372	
Residence: 373 13th Ave.—WA-1054	
Dean of Men.....	JOSEPH A. PARK
Office: Administration Building—UN-3148; Campus 283	
Residence: 1474 Doone Rd., Upper Arlington—KI-1702	
Dean of Women.....	ESTHER ALLEN GAW
Office: Pomerene Hall—UN-3148; Campus 480, 238, 226	
Residence: 60 Jefferson Ave.	
House Superintendent, Residence Halls.....	EMMA E. PROUT
Office: Oxley Hall—UN-3148; Campus 346	
Residence: Mack Hall—UN-3148; Campus 264	

COLLEGE OF DENTISTRY

OFFICERS

- Dean.....HARRY M. SEMANS
Office: Hamilton Hall—UN-3148; Campus 531
Residence: 1696 Merrick Rd.—KI-5124
- Secretary.....HARVEY V. COTTRELL
Office: Hamilton Hall—UN-3148; Campus 270
Residence: 206 E. Dunedin Rd.—LA-4102

FACULTY

1933-1934

- GEORGE W. RIGHTMIRE, M.A., LL.D. *President of the University*
HARRY M. SEMANS, M.A., D.D.S., *Dean, Professor of Dentistry (Dental Anatomy and Principles of Dentistry)*
HARVEY V. COTTRELL, D.D.S. *Secretary, Professor of Dentistry (Prosthesis)*
IRWIN A. BOTTENHORN, D.D.S., M.D., *Professor of Dentistry (Dental Pathology)*
WILLIAM C. GRAHAM, D.D.S., *Professor of Dentistry (Dental Medicine and Preventive Dentistry)*
DICK P. SNYDER, D.D.S. *Professor of Dentistry (Oral Surgery)*
ROLLO C. BAKER, M.A., Ph.D. *Professor of Anatomy*
RALPH A. KNOUFF, M.A., Ph.D. *Professor of Anatomy*
CHARLES B. MORREY, B.A., M.D. *Professor of Bacteriology*
LEONARD BLAINE NICE, Ph.D. *Professor of Physiology*
ERNEST SCOTT, B.Sc. in Agr., M.D. *Professor of Pathology*
RAYMOND J. SEYMOUR, B.Sc., M.S., M.D. *Professor of Physiology*
CLAYTON S. SMITH, M.Sc., Ph.D., M.D., *Professor of Physiological Chemistry, Pharmacology, and Materia Medica*
JOHN B. BROWN, M.Sc., Ph.D., *Associate Professor of Physiological Chemistry*
RALPH S. PAFFENBARGER, B.E.E., M.Sc., *Associate Professor of Engineering Drawing*
CLYDE H. HEBBLE, D.D.S., *Assistant Professor of Dentistry (Operative Dentistry)*
EARL G. JONES, D.D.S. *Assistant Professor of Dentistry (Orthodontia)*
PAUL CLIFFORD KITCHIN, M.S., D.D.S., *Assistant Professor of Dentistry (Historical and Clinical Dentistry) (Research)*
FRANK C. STARR, D.D.S., *Assistant Professor of Dentistry (Crown and Bridge Work)*
CHARLES W. STROSNIER, D.D.S., *Assistant Professor of Dentistry (Operative Dentistry)*
ROLAND B. WILTBERGER, D.D.S., *Assistant Professor of Dentistry (Porcelain, Dental Anatomy, and Metallurgy)*
LINDEN F. EDWARDS, B.A., M.Sc., Ph.D. *Assistant Professor of Anatomy*
CLAYTON MCPEEK, B.A., M.D. *Assistant Professor of Physiology*
EDWIN F. SHAFFER, M.D., Major, M.C., U.S.A., *Assistant Professor of Military Science and Tactics*
JOEL G. BERNHARD, D.D.S. *Instructor in Dentistry (Prosthesis)*
CARL O. BOUCHER, D.D.S. *Instructor in Dentistry (Prosthesis)*

- MARY K. HELZ, A.B., M.Sc. *Instructor in Pathology*
 WILBUR L. MARSHALL, D.D.S., *Instructor in Dentistry (Crown and Bridge
 Technic)*
 ROBERT D. MCFARLAND, D.D.S. *Instructor in Dentistry (Clinical Dentistry)*
 OLLIE O. MOBBERLY, D.D.S. *Examiner in Dental Clinics*
 WENDELL D. POSTLE, D.D.S., *Instructor in Dentistry (Oral Surgery and X-ray)*
 LOUIS E. REIF, D.D.S. *Instructor in Dentistry (Operative Dentistry)*
 HERBERT S. SHUMWAY, D.D.S. *Instructor in Dentistry (Prosthetic Technic)*
 VICTOR L. STEFFEL, D.D.S. *Instructor in Dentistry (Prosthesis)*
 HARRY H. WEISER, B.Sc. in Agr., M.Sc. *Instructor in Bacteriology*
 HAROLD K. CROW, D.D.S., *Demonstrator in Dentistry (Crown and Bridge, and
 Inlay)*
 LYLE S. PETTIT, D.D.S. *Demonstrator in Dentistry (Oral Hygiene)*
 ROBERT E. WADE, D.D.S. *Demonstrator in Dentistry (Orthodontia)*

THE OHIO STATE UNIVERSITY

LOCATION

The Ohio State University is situated within the corporate limits of the city of Columbus. It is supported by appropriations from the State and Federal governments. The University has almost 1,400 acres of land with nearly 400 acres in the campus. The total value of land, buildings, and equipment is \$22,254,798.17.

The offices of the President of the University, the University Examiner, the Registrar, and the Bursar are located in the Administration Building.

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 Agriculture (including the School of Home Economics), College of Arts and Sciences, College of Commerce and Administration (including the Schools of Journalism and Social Administration), College of Dentistry, College of Education, College of Engineering (including the School of Mineral Industries), College of Law, College of Medicine (including the School of Nursing), College of Pharmacy, College of Veterinary Medicine.

COLLEGE OF DENTISTRY

The office of the College of Dentistry is located in Hamilton Hall on the University Campus, at the corner of Eleventh and Neil Avenues. For information concerning the College, address Dr. Harry M. Semans, Dean, College of Dentistry, Ohio State University, Columbus.

This *Bulletin* is devoted exclusively to the work of the College of Dentistry for the academic year, 1934-1935. For bulletins of the College of Dentistry, or any information in regard to entrance, address the University Examiner, Ohio State University, Columbus.

NOTE: Bulletins describing the work of the several Colleges may be obtained by addressing the University Examiner, Ohio State University, Columbus, and stating the College in which the writer is interested. (For list of bulletins, see the last page.)

COLLEGE OF DENTISTRY

GENERAL INFORMATION

The College of Dentistry is located in Hamilton Hall, at the Neil Avenue entrance to the University Campus.

The office of the College of Dentistry is in the north wing of Hamilton Hall. It is open from 8:30 A. M. to 12 M. and 1 to 5 P. M., except Saturday. On Saturday, the office hours are from 8:30 A. M. to 12 M.

IMPORTANT NOTICE

Satisfactory evidence must be presented that the applicant for entrance has completed at least two years of instruction in an approved college of liberal arts and sciences, ninety Quarter-credit hours or sixty semester hours, after the completion of an approved four-year high school course based upon

eight years of elementary preparation. College instruction must include English 9 hours, biology (animal) 9 hours, general chemistry 9 hours, organic chemistry 9 hours, and physics 9 hours, or 6 hours each, respectively, on the semester basis.

INFIRMARY 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 all patients.

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

A minimum number of points on all types of work must be obtained before graduation. Students having obtained said minimum number of points are not excused from attendance but must continue work until the close of the regular session.

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 University Library.

STUDENT MEDICAL SERVICE

Medical Staff: Dr. M. F. Osburn, Acting Director; Dr. John W. Wilce, Dr. J. M. Foley, Dr. James A. Beer, Dr. Shirley Armstrong, Dr. Charlotte Winnemore.

Office Hours: When the University is in session, daily 8:30 to 12:00 and 1:00 to 4:30; Saturday, 8:30 to 12:00. Phone: Campus 461.

The object of the Student Medical Service is to render first aid and casual treatment to students on the campus. When, in the judgment of the student Medical Service physicians, hospitalization for observation and diagnosis is necessary, such is provided without charge. Seniors are given a complete physical examination on their request. Application for this should be made at the beginning of their last Quarter.

STUDENT AUTOMOBILES

The University does not bar the use of automobiles by students. However, students can be given only very limited parking space on the campus, and the use of autos is discouraged. Unless the student drives a long distance to and from his home each day or is physically incapacitated, he does not need a car while attending the University. The cooperation of parents in this matter is earnestly desired.

ADMISSION

The College of Dentistry is open on equal terms to both sexes.

METHOD OF ADMISSION

The admission of students is in charge of the University Entrance Board. The record of a student of this University will be examined, upon application of the student, and his eligibility for admission to the College of Dentistry will be determined by the University Examiner, Chairman of the Entrance Board. A candidate for admission to the College of Dentistry who has completed his pre-dental work in a college or university other than this University and

meeting the requirements outlined below should present an official transcript of his high school and college records to the University Examiner who will determine his eligibility for admission to the College of Dentistry.

Correspondence relating to admissions and credentials should be forwarded to the University Examiner, The Ohio State University, Columbus.

REQUIREMENTS FOR ADMISSION

Applicants for admission must present to the Entrance Board an official certificate of college attainments, showing that the applicant has obtained credit for at least two years of college work (ninety Quarter-credit hours or sixty semester hours) either in the College of Arts and Sciences of The Ohio State University, or in some other college of approved standing. Before an applicant can be transferred or admitted to the College of Dentistry, he must have obtained at least twice as many points as the number of credit hours undertaken in the college from which he desires to transfer.

COURSE PRELIMINARY TO ADMISSION TO THE COLLEGE OF DENTISTRY FOR STUDENTS AT THE OHIO STATE UNIVERSITY

The applicant for admission who is taking his preliminary work in the College of Arts and Sciences of The Ohio State University must include credits for the following courses:

General Zoology	401	5 hours
Anatomy	407	5 hours
Chemistry	401-402-403 or 411-412-413	15 hours
Chemistry	451-452	10 hours
English	401, 430	10 hours
Physics	411-412 or 411-413	10 hours
Physiology	419	5 hours
Psychology	401	5 hours

For the selection of the remaining hours the candidate must conform to the requirements of the curriculum of the College of Arts and Sciences of The Ohio State University as outlined for pre-dental students in the *Bulletin* of the College of Arts and Sciences. These requirements are as follows:

Psychology 402 or Fine Arts 421	5 hours
Economics, Sociology, or Political Science	10 hours
History 401-402 or 403-404	10 hours

The requirements preliminary to admission to the College of Dentistry for students who have not taken their college work at The Ohio State University should as far as possible follow the outline above.

ADVANCED STANDING AND OTHER INFORMATION

CREDIT FOR WORK DONE IN OTHER DENTAL COLLEGES

Students from accredited dental colleges may be considered for admission to advanced standing under the following rules:

- (1) They must present credentials showing that they have met the entrance requirements of the College of Dentistry of The Ohio State University.
- (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 met 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 CURRICULA

ARTS-DENTISTRY

SEVEN YEARS

This course includes the first three years of the curriculum of the College of Arts and Sciences 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 and Sciences. For admission to the College of Arts and Sciences, 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 fifteen units of college entrance subjects.

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

(1) He must secure credit for a total of 145 Quarter hours, complying with the requirements for admission to the College of Dentistry and 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 group requirements of the College of Arts and Sciences.

(4) The last full year of this Arts work must be done in the College of Arts and Sciences 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, and at the same time retain his registration in the College of Arts and Sciences. To secure this double registration, application should be made to the University Examiner.

Requirements in Points and Hours. To be eligible for the degree of Bachelor of Arts, the candidate must have secured at least 145 credit hours in courses listed in the Bulletin of the College of Arts and Sciences, including the requirements in military science, physical education and hygiene, at the rate of not less than 1.8 points per credit hour undertaken. He must also have 45 credit hours, at the 1.8 points per hour ratio, in the first year of the College of Dentistry, making a total of 190 credit hours.

Students may not present in excess of ten hours of "K" credit after the completion of the first two years of Arts work; and if such credit to the amount of ten hours is presented it must be on record at least two Quarters prior to the completion of the requirements for the professional degree.

Students in good standing who, however, have failed to make the required point ratio on the work of the first year in the College of Dentistry, may make up their deficiency in points by carrying additional courses in the College of Arts and Sciences in order to become eligible for the Bachelor of Arts degree. If they prefer not to follow the above procedure, the conferring of the degree will be postponed until they are eligible for the degree of Doctor of Dental Surgery from the College of Dentistry at The Ohio State University.

Degrees. When the candidate has completed the 190 credit hours as described above, he 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.

The combination course in Arts-Dentistry is 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.

COMBINED CURRICULUM IN THE GRADUATE SCHOOL AND THE COLLEGE OF DENTISTRY

Candidates for advanced degrees admitted to the College of Dentistry and the Graduate School by the Entrance Board may offer for the Master's degree not to exceed fifteen hours of credit in courses required by the College of Dentistry for the degree in dentistry. Credit in the College of Dentistry secured during double registration must meet the standards of the Graduate School, namely, a rating of at least "B" in the major subject.

Each department shall determine the extent to which students carrying courses listed in the Graduate School may be required to carry the corresponding dental course or substitute research work therefor, or be excused from such requirements. Such credit adjustments must be approved by the chairman of the department concerned and by the executive committee of the College of Dentistry.

REGISTRATION

Under the Quarter plan each student will present his program of studies for only one Quarter at a time. During each Quarter certain days will be announced during which every student in residence will be required to file his program of studies for the following Quarter. Fees may be paid as soon as fee cards have been received by the student from the Registrar. *Students are expected to pay their fees before the day designated in the University Calendar for classes to begin and to report promptly to their classes on the first day that classes are scheduled.* Students who have registered sufficiently early usually receive fee cards approximately three weeks prior to the opening of the Quarter. *It is to the advantage of all students to register as early as possible.*

Applicants presenting themselves after the opening of the Quarter can be admitted only for exceptional reasons and by action of the Executive Committee of the College.

FEEES AND EXPENSES

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, before the day designated in the University Calendar for classes to begin, no person should come to the University for registration without money sufficient to cover all his fees and deposits.

A penalty of \$5.00 for each succeeding day or fraction thereof will be assessed for failure to comply with this rule except in the case of a new stu-

dent granted permission by the Dean of his College to register after the opening of the University.

1. Matriculation fee (non-returnable)
Required of every student on first admission to the University\$ 10.00
2. Tuition fees
Tuition fees include the laboratory deposit, \$35.00 of which is non-returnable
Quarter fee for a resident of Ohio..... 50.00
Quarter fee for a non-resident of Ohio..... 100.00
3. Special fees
 - (a) Ohio Union (Men) (Each Quarter)..... 1.00
Women's Union (Women) (Each Quarter)..... 1.00
The Union fees entitle the students to all the privileges of the Unions
 - (b) Student Activities and Medical Service Laboratory fee 2.00
Required of all students each Quarter; to be used in support of Student Government Activities and the Student Medical Service
 - (c) Breakage and Incidental Charges 10.00
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. The amount to be refunded depends upon the breakage and the return of locker keys
 - (d) Graduation fee
A graduation fee is required of each person receiving a diploma. The fee must be paid one week before the close of the Quarter in which the candidate expects to receive his degree
Degree of Doctor of Dental Surgery..... 5.00
Bachelor's degree 5.00
Master's degree 10.00

NON-RESIDENT FEE

Every student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of \$50.00 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 cancelled.

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, unless after attendance at the University for one year it can be clearly established by the student that his

previous legal residence has been abandoned and a new one established in Ohio for purposes other than merely attending 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.

MINORS: 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.

WIVES: The residence of wives shall follow that of husbands.

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

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 \$125.00 for tools in the first year; \$25.00 for books and \$250.00 for instruments in the second year, including dental engine; \$20.00 for books and \$200.00 for instruments in the third year.

Attention is called to the rule that all instruments found on the required list must bear the brand of accredited manufacturers. Instruments 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 courses are bought by the students.

RETURN OF FEES ON WITHDRAWAL

Fees are returnable in case a student withdraws on account of sickness or for other causes entirely beyond his control, if such withdrawal is made during the first thirty days of the Quarter. Students withdrawing under request from the University are not entitled to any return of fees. Permission to withdraw, given in writing by the Dean of the College, must be presented to the Bursar within this thirty-day period. Ordinarily no more than one-half of the fees paid will be refunded; if the case has exceptional circumstances it should be referred to the President for his judgment.

No fees will be returned in case of withdrawal of students until thirty days have elapsed from the date of withdrawal.

If fees are paid under mistake of law or fact they are returnable in full. Fees are not returnable except as provided in this rule.

SPECIAL FEES—PENALTIES

PENALTY FOR FAILURE TO REGISTER WITH THE DEAN OF WOMEN

Every woman student must register with the Dean of Women at her office in Pomerene Hall at the beginning of each Quarter. Registration closes on Thursday following the opening of the Quarter. Students who are residents of Columbus are requested to register on the day preceding the opening of classes. A penalty of \$5.00 will be assessed for failure to comply with this rule.

PENALTY FOR FAILURE TO KEEP APPOINTMENT FOR PHYSICAL EXAMINATION

A penalty of \$1.00 will be assessed for failure to keep appointment for Physical Examination or for change in date of Physical Examination.

PENALTY FOR RE-REGISTRATION

When checks given for payment of fees are not paid on presentation at bank, registration will be cancelled and receipts given considered null and void. A penalty of \$5.00 will be assessed for re-registration.

COST OF A YEAR'S WORK

In order to furnish information, we have 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 board 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.

ESTIMATE OF EXPENSES

Matriculation fee (non-returnable) paid only once.....	\$ 10.00
Tuition fee, including laboratory deposit unreturnable....	150.00
Ohio Union	3.00
Activities and Medical Service Laboratory fee.....	6.00
Books and Instruments.....	150.00
Board—36 weeks at \$4.50 a week.....	162.00
Room rent at \$10.00 a month.....	90.00
Total.....	\$571.00

SELF-HELP

The University cannot promise work to students who expect to work their way through college. Many students find work in private families, in offices, and in various occupations, by means of which they defray a portion of their expenses. A person of ability and energy who is master of a trade, or who can do good work of any kind, can generally find employment, but prospective students are cautioned against depending wholly upon such uncertain sources of income.

An employment bureau is maintained by the Ohio Union, where the names of those seeking work and of those desiring workers are recorded. Students desiring work should apply to the Manager, Ohio Union.

Part-time placement of undergraduate women is arranged through the office of the Dean of Women.

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.

LIVING ARRANGEMENTS

The President of the University has the authority to supervise living arrangements of students not residents of the city of Columbus and to order the immediate withdrawal of any student from any boarding or lodging house in which the surroundings are undesirable.

ROOMS AND BOARD FOR MEN

The University possesses only one dormitory for men, the Tower Club. Furnished rooms can be obtained at prices varying from \$8.00 to \$15.00 a month (single) and \$10.00 to \$20.00 (double). The cost of table board in the clubs

NOTICE

At a meeting of the Board of Trustees held on April 6, 1934, the following changes in fees were approved:

Matriculation fee, \$15.00. Effective September 1, 1934.

Library Laboratory fee, \$1.00 to be paid by each student each Quarter. Effective at the opening of the Summer Quarter, 1934.

Students must present satisfactory reasons to the Men's Housing Bureau for moving out before the expiration of that period, or, unless he can secure a satisfactory substitute. If he moves out before the expiration of the Quarter without presenting a satisfactory excuse he shall forfeit one month's rent. The signing of such agreement is optional.

The University warns students not to rent rooms which have not been placed on the approved list by the Men's Housing Bureau. Anyone renting a room which is not on the approved list does so at his own risk.

LIVING ARRANGEMENTS FOR WOMEN

All living arrangements for women are under the supervision of the Dean of Women and must be submitted to her before completion.

LIVING ARRANGEMENTS

The President of the University has the authority to supervise living arrangements of students not residents of the city of Columbus and to order the immediate withdrawal of any student from any boarding or lodging house in which the surroundings are undesirable.

ROOMS AND BOARD FOR MEN

The University possesses only one dormitory for men, the Tower Club. Furnished rooms can be obtained at prices varying from \$8.00 to \$15.00 a month (single) and \$10.00 to \$20.00 (double). The cost of table board in the clubs and restaurants near the University is from \$4.00 to \$6.00 a week. Board can be secured at the Ohio Union at reasonable prices.

Board with furnished rooms can be obtained in private families within convenient distance from the University at rates varying around \$7.00 a week.

THE TOWER CLUB

The Tower Club was organized in the Autumn of 1933 for men who are in great need of financial assistance.

It is located in the southwest tower of the University Stadium.

Applicants with unusually good records in the high school and advanced students who have made unusually good records in college are eligible for consideration.

The Club is run on a cooperative dormitory plan with very simple accommodations. The Club fee is \$1.00 a Quarter for each man. Board is available at approximately \$2.50 a week.

Applications should be sent to B. L. Stradley, University Examiner.

MEN'S HOUSING BUREAU

The absence of dormitories for men at The Ohio State University, with the exception of the Tower Club, causes the men students to reside in private rooming houses in the University district. In order to assist the students (especially those entering for the first time) in finding desirable rooms at the greatest saving, the University has created the Men's Housing Bureau, located in the office of the Dean of Men, first floor, Administration Building.

Classified lists of rooms available for every student and for any number of students are always available at this office. Boarding houses are likewise listed.

If the student signs the "Rooming House Agreement" he shall be expected to be responsible for the rental price of the room as specified in the agreement, unless he can present satisfactory reasons to the Men's Housing Bureau for moving out before the expiration of that period, or, unless he can secure a satisfactory substitute. If he moves out before the expiration of the Quarter without presenting a satisfactory excuse he shall forfeit one month's rent. The signing of such agreement is optional.

The University warns students not to rent rooms which have not been placed on the approved list by the Men's Housing Bureau. Anyone renting a room which is not on the approved list does so at his own risk.

LIVING ARRANGEMENTS FOR WOMEN

All living arrangements for women are under the supervision of the Dean of Women and must be submitted to her before completion.

RULES AND REGULATIONS

THE MARKING SYSTEM AND POINT SYSTEM

The grade marks given in the several Colleges of the University are: A—Excellent; B—Good; C—Average; D—Poor; E—Failed.

K (Credit) shall be used for work credited from other institutions and by the University Examiner only.

Em (Examination) credit shall be used to indicate that the credit given is for work not done in residence.

A value in "Points" is assigned to each of these grades as follows:

For each hour of A grade, 4 credit points shall be allowed.

For each hour of B grade, 3 credit points shall be allowed.

For each hour of C grade, 2 credit points shall be allowed.

For each hour of D grade, 1 credit point shall be allowed.

For each hour of K credit, no credit points shall be allowed.

For each hour of Em credit, no credit points shall be allowed.

The grade of E receives no credit either in hours or points.

The mark E cannot be removed by re-examination. (For removal of failures, see below.)

POINTS REQUIRED FOR GRADUATION

The number of credit points required for graduation shall amount to not less than 1.8 times the number of credit hours undertaken at this institution.

REMOVAL OF FAILURES

FAILURE IN A REQUIRED COURSE

At his first opportunity a student must repeat in class a required course in which he has failed, unless the Executive Committee of the College authorizes a substitute course.

GRADUATION

POINTS REQUIRED FOR GRADUATION

The number of credit points required for graduation shall amount to not less than 1.8 times the number of credit hours undertaken at this institution. (For Point System, see above.)

GRADUATION FEE

A special graduation fee is required of each person receiving a diploma from the University.

COMMENCEMENT—CONVOCATION

A special Convocation or Commencement shall be scheduled at the close of each Quarter for the conferring of degrees upon candidates who have fulfilled all the requirements of their respective courses.

ATTENDANCE AT CONVOCATION EXERCISES

All candidates for degrees are required to be present at their graduation convocation unless excused by the President.

COLLEGE OF DENTISTRY

CURRICULUM

Based on two years of pre-dental college work

FIRST YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Prosthesis	(601) 4	Prosthesis	(602) 4	Prosthesis	(603) 5
Prosthetic Technic		Prosthetic Technic		Prosthetic Technic	
Anatomy	(638) 7	Anatomy	(639) 7	Anatomy	(640) 5
Human Anatomy		Human Anatomy		Histology and Embryology	
Operative Dentistry	(601) 2	Operative Dentistry	(602) 4	Operative Dentistry	(603) 2
Dental Anatomy		Dental Anatomy		Dental Anatomy	
Engineering Drawing	(414) 2			Physiological Chem.	(632) 5
				Bio-Chemistry	

SECOND YEAR

Operative Dentistry	(605) 3	Operative Dentistry	(606) 3	Bacteriology	(651) 5
Technic		Technic		Physiology	(607) 2
Physiology	(604) 6	Physiology	(605) 6	Prosthesis	(607) 4
Prosthesis	(605) 3	Prosthesis	(606) 2	Prosthetic Technic	
Prosthesis	(621) 3	Prosthesis	(622) 2	Prosthesis	(623) 4
Crown and Bridge Technic		Crown and Bridge Technic		Crown and Bridge Technic	
Prosthesis	(619) 2	Bacteriology	(650) 5	Operative Dentistry	(616) 1
Dental Metallurgy				Dental Hygiene: Immunology	
				Operative Dentistry	(631) 2
				Orthodontia Technic	

THIRD YEAR

Anatomy	(641) 1	Operative Dentistry	(622) 1	Operative Dentistry	(623) 2
Sectional		Medicine		Medicine	
Operative Dentistry	(621) 1	Operative Dentistry	(618) 3	Operative Dentistry	(619) 1
Medicine		Oral Hygiene: Immunology		Porcelain	
Operative Dentistry	(617) 2	Operative Dentistry	(610) 2	Operative Dentistry	(611) 3
Oral Hygiene: Immunology		Principles and Practice		Principles and Practice	
Operative Dentistry	(609) 2	Operative Dentistry	(629) 2	Operative Dentistry	(630) 2
Principles and Practice		Exodontia and X-ray		Exodontia and X-ray	
Operative Dentistry	(628) 2	Pathology	(651) 3	Pathology	(652) 2
Exodontia and X-ray		General Pathology		Dental Pathology	
Pathology	(650) 3	Prosthesis	(610) 2	Prosthesis	(611) 4
General Pathology		Principles and Practice		Principles and Practice	
Prosthesis	(609) 2	Prosthesis	(626) 2	Prosthesis	(627) 2
Principles and Practice		Crown and Bridge Technic and Principles		Crown and Bridge Technic and Principles	
Prosthesis	(625) 2	Operative Dentistry	(634) 2	Operative Dentistry	(635) 2
Crown and Bridge Technic and Principles		Orthodontia		Orthodontia	
Operative Dentistry	(620) 3				
Special Dental Histology and Embryology					
Operative Dentistry	(633) 1				
Orthodontia					

FOURTH YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Operative Dentistry	(637) 2	Operative Dentistry	(638) 2	Operative Dentistry	(639) 2
Anesthesia		Anesthesia		Anesthesia	
Operative Dentistry	(641) 1	Operative Dentistry	(642) 1	Operative Dentistry	(643) 1
Ethics, Economics,		Ethics, Economics,		Ethics, Economics,	
History, Jurisprudence		History, Jurisprudence		History, Jurisprudence	
Operative Dentistry	(625) 2	Operative Dentistry	(626) 2	Operative Dentistry	(627) 2
Medicine		Medicine		Medicine	
Operative Dentistry	(645) 2	Operative Dentistry	(646) 2	Operative Dentistry	(647) 2
Oral Surgery		Oral Surgery		Oral Surgery	
*Operative Dentistry	(633) 2	*Operative Dentistry	(634) 2	*Operative Dentistry	(635) 2
Orthodontia Principles		Orthodontia Principles		Orthodontia Principles	
and Practice		and Practice		and Practice	
Operative Dentistry	(613) 5	Operative Dentistry	(614) 6	Operative Dentistry	(615) 6
Principles and Practice		Principles and Practice		Principles and Practice	
Prosthesis	(618) 2	Prosthesis	(614) 2	Prosthesis	(615) 2
Prosthetic Dentistry		Prosthetic Dentistry		Prosthetic Dentistry	
Practice		Practice		Practice	
Prosthesis	(629) 2	Prosthesis	(630) 2	Prosthesis	(631) 2
Crown and Bridge		Crown and Bridge		Crown and Bridge	
Technic and Practice		Technic and Practice		Technic and Practice	
Physiological Chem.	(633) 2				
Dietetica					

* For 1934-1935 only.

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 per cent 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 per cent of the scheduled hours. The margin of 15 per cent 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 investigation.

SUMMARY OF DENTAL CURRICULUM

The single figure in parenthesis after each course indicates the number of credit hours given for that course. The figure preceding the dash indicates the number of hours spent each week in lecture or recitation. The figure after the dash indicates the number of hours spent each week in laboratory work.

TOTAL CLOCK HOURS IN WORK OF FIRST YEAR.....1344														
Autumn Quarter				Winter Quarter				Spring Quarter						
Prosthesis	.....	(601)	(4)	1—9	Prosthesis	.....	(602)	(4)	1—9	Prosthesis	.....	(608)	(5)	1—12
Anatomy	.....	(638)	(7)	2—15	Anatomy	.....	(639)	(7)	2—15	Anatomy	.....	(640)	(5)	3—9
Operative Dentistry	.....	(601)	(2)	1—3	Operative Dentistry	.....	(602)	(4)	1—9	Operative Dentistry	.....	(603)	(2)	1—3
Engineering Drawing	.....	(414)	(2)	0—6						Physiological Chemistry	.....	(632)	(5)	3—6

15 4 33 444

15 4 33 444

17 8 30 456

TOTAL CLOCK HOURS IN WORK OF SECOND YEAR.....1332

Operative Dentistry	.....	(605)	(3)	1—6	Operative Dentistry	.....	(606)	(3)	1—6	Physiology	.....	(607)	(2)	2—0
Physiology	.....	(604)	(6)	4—8	Physiology	.....	(605)	(6)	8—9	Prosthesis	.....	(607)	(4)	1—9
Prosthesis	.....	(605)	(3)	1—6	Prosthesis	.....	(606)	(2)	1—3	Prosthesis	.....	(623)	(4)	1—9
Prosthesis	.....	(621)	(3)	1—6	Prosthesis	.....	(622)	(2)	1—3	Operative Dentistry	.....	(616)	(1)	1—0
Prosthesis	.....	(619)	(2)	1—3	Bacteriology	.....	(650)	(5)	2—9	Bacteriology	.....	(651)	(5)	2—9
					Operative Dentistry	.....	(631)	(2)	1—3	Operative Dentistry	.....	(631)	(2)	1—3

17 8 27 456

18 8 30 456

18 8 30 456

TOTAL CLOCK HOURS IN WORK OF THIRD YEAR.....1424

Anatomy	.....	(641)	(1)	1—2	Operative Dentistry	.....	(622)	(1)	1—0	Operative Dentistry	.....	(628)	(2)	1—3
Operative Dentistry	.....	(621)	(1)	1—0	Operative Dentistry	.....	(618)	(3)	1—6	Operative Dentistry	.....	(619)	(1)	0—3
Operative Dentistry	.....	(617)	(2)	1—3	Operative Dentistry	.....	(610)	(3)	1—6	Operative Dentistry	.....	(611)	(3)	1—6
Operative Dentistry	.....	(609)	(2)	1—3	Operative Dentistry	.....	(629)	(2)	1—3	Operative Dentistry	.....	(630)	(2)	1—3
Operative Dentistry	.....	(628)	(2)	1—3	Operative Dentistry	.....	(610)	(3)	1—6	Operative Dentistry	.....	(611)	(3)	1—6
Pathology	.....	(650)	(3)	1—6	Operative Dentistry	.....	(629)	(2)	1—3	Operative Dentistry	.....	(630)	(2)	1—3
Prosthesis	.....	(609)	(2)	1—3	Pathology	.....	(651)	(3)	1—6	Pathology	.....	(652)	(2)	1—3
Prosthesis	.....	(625)	(2)	1—3	Prosthesis	.....	(610)	(2)	1—3	Prosthesis	.....	(611)	(4)	1—9
Operative Dentistry	.....	(620)	(3)	1—6	Prosthesis	.....	(626)	(2)	1—3	Prosthesis	.....	(627)	(2)	1—3
Operative Dentistry	.....	(633)	(1)	1—2	Operative Dentistry	.....	(634)	(2)	1—3	Operative Dentistry	.....	(635)	(2)	1—3

19 10 31 488

18 8 30 456

18 7 33 480

TOTAL CLOCK HOURS IN WORK OF FOURTH YEAR.....1476

Operative Dentistry	.....	(637)	(2)	1—3	Operative Dentistry	.....	(638)	(2)	1—3	Operative Dentistry	.....	(639)	(2)	1—3
Operative Dentistry	.....	(641)	(1)	1—0	Operative Dentistry	.....	(642)	(1)	1—0	Operative Dentistry	.....	(643)	(1)	1—0
Operative Dentistry	.....	(625)	(2)	1—3	Operative Dentistry	.....	(626)	(2)	1—3	Operative Dentistry	.....	(627)	(2)	1—3
Operative Dentistry	.....	(645)	(2)	1—3	Operative Dentistry	.....	(646)	(2)	1—3	Operative Dentistry	.....	(647)	(2)	1—3
Operative Dentistry	.....	(613)	(5)	1—12	Operative Dentistry	.....	(614)	(6)	1—15	Operative Dentistry	.....	(615)	(6)	1—15
Prosthesis	.....	(613)	(2)	1—6	Prosthesis	.....	(614)	(2)	0—6	Prosthesis	.....	(615)	(2)	0—6
Prosthesis	.....	(629)	(2)	0—6	Prosthesis	.....	(630)	(2)	0—6	Prosthesis	.....	(631)	(2)	0—6
Physiological Chem.	.....	(633)	(2)	2—0										

18 8 33 492

17 5 36 492

17 5 36 492

DEPARTMENTS OF INSTRUCTION

ANATOMY

Office, Hamilton Hall

PROFESSORS KNOUFF AND BAKER, ASSISTANT PROFESSOR EDWARDS,
AND ASSISTANTS

628. Special Advanced Anatomy. Three credit hours. Winter Quarter. One conference or lecture and six laboratory hours each week. Elective, Dentistry, second, third, and fourth years. Prerequisite, Anatomy 639 and 640 or equivalent. Dr. Edwards.

Students will select or have assigned to them special regions for dissection and study.

638-639. Human Anatomy. Seven credit hours. Autumn and Winter Quarters. Two recitations and fifteen laboratory hours each week. Dentistry, first year. Dr. Edwards and assistants.

The gross anatomy of the body with special stress on the anatomy of the head and neck, including the osteology of these parts.

Not open to students who have credit for Anatomy 433 or 438-439.

640. Histology and Embryology. Five credit hours. Spring Quarter. Three recitations and nine laboratory hours each week. Dentistry, first year. Dr. Knouff and assistants.

The general histology of the tissues and the special histology of the skeletal, vascular, digestive, respiratory, urinary and nervous systems, including special embryological features of the teeth and histology of the reproductive system.

Not open to students who have credit for Anatomy 440.

641. Sectional Anatomy. One credit hour. Autumn Quarter. Three hours of laboratory, including lecture or quiz, each week. Dentistry, third year. Prerequisite, Anatomy 638-639-640. Dr. Edwards and assistants.

A detailed study of head sections with special attention to the structures concerned in the procedures of oral surgery. This course is correlated with Operative Dentistry 628.

BACTERIOLOGY

Office, 210 Pharmacy and Bacteriology Building

PROFESSOR MORREY, DR. DEEM, AND ASSISTANTS

650-651. Dental Bacteriology. Five credit hours. Winter and Spring Quarters. Two recitations and nine laboratory hours each week. Dentistry, second year. Dr. Morrey, Dr. Deem, 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. The pathogenic organisms of the mouth cavity are studied.

Not open to students who have credit for Bacteriology 450.

ENGINEERING DRAWING

Office, 218 Brown Hall

PROFESSOR FRENCH, ASSOCIATE PROFESSOR PAFFENBARGER, ASSISTANT
PROFESSOR COOPER

414. Drawing and Sketching. Two credit hours. Autumn Quarter. Six laboratory hours each week. Dentistry, first year. Mr. Paffenbarger, Mr. Cooper.

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

MILITARY SCIENCE AND TACTICS

RESERVE OFFICERS' TRAINING CORPS
DENTAL CORPS UNIT

Office, Hamilton Hall

MAJOR SHAFFER, MEDICAL CORPS, U. S. ARMY

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 during the summer following the junior year. The camp at present is held at the Medical Field Service School, Carlisle Barracks, Pa. 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 of the seventh grade of the Army.

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

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. Basic Military Science. One credit hour. Autumn, Winter, and Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, Dentistry, second year. Major Shaffer.

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. Advanced Military Science. One credit hour. Autumn, Winter, and Spring Quarters. One lecture hour each week. Thirty hours each year. Elective, Dentistry, third year. Major Shaffer.

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. Communicable diseases, their prevention and treatment. Rations.

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

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.

OPERATIVE DENTISTRY

Office, Hamilton Hall

PROFESSORS SEMANS, BOTTENHORN, GRAHAM, AND SNYDER, ASSISTANT PROFESSORS HEBBLE, JONES, STROSNIDER, KITCHIN, AND STARR, DR. MOBBERLY, DR. REIF, DR. POSTLE, DR. McFARLAND, AND DEMONSTRATORS

601. Dental Anatomy. Two credit hours. Autumn Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, first year. Dr. Semans, Dr. Reif.

The study and sketching of human teeth.

Not open to students who have credit for Operative Dentistry 401.

602. Dental Anatomy. Four credit hours. Winter Quarter. One lecture or quiz and nine laboratory hours each week. Dentistry, first year. Dr. Semans, Dr. Wiltberger.

Continuation of descriptive human dental anatomy, sketching of natural teeth and the adjacent parts, sectioning and making models of the same.

Not open to students who have credit for Operative Dentistry 402.

603. Dental Anatomy and Operative Technic. Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, first year. Dr. Semans, Dr. Strosnider, Dr. Reif.

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

Not open to students who have credit for Operative Dentistry 403.

605-606. Operative Technic. Three credit hours. Autumn and Winter Quarters. One lecture or quiz and six laboratory hours each week. Dentistry, second year. 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.

Not open to students who have credit for Operative Dentistry 405-406.

609. Principles and Practice of Operative Dentistry. Two credit hours. Autumn Quarter. One lecture or quiz period and three clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 606. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Reif, Dr. Kitchin, Dr. McFarland.

The study of and practical work in all methods, appliances, and materials used in filling teeth.

Not open to students who have credit for Operative Dentistry 409.

610. Principles and Practice of Operative Dentistry. Three credit hours. Winter Quarter. One lecture or quiz and six clinical hours each week. Dentistry, third year. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Reif, Dr. Kitchin, Dr. McFarland.

A continuation of Operative Dentistry 609.

Not open to students who have credit for Operative Dentistry 410.

611. Principles and Practice of Operative Dentistry. Three credit hours. Spring Quarter. One lecture or quiz and six clinical hours each week. Dentistry, third year. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Reif, Dr. Kitchin, Dr. McFarland.

A continuation of Operative Dentistry 610.

Not open to students who have credit for Operative Dentistry 411.

613. Principles and Practice of Operative Dentistry. Five credit hours. Autumn Quarter. One lecture or quiz and twelve clinical hours each week. Dentistry, fourth year. Prerequisite, Operative Dentistry 611. Dr. Semans,

Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Reif, Dr. Kitchin, Dr. McFarland, Dr. Graham, Dr. Jones.

The study of and clinical work in all modern methods of restoration of the natural tooth. Corrections of irregularities and other phases of dentistry for children. Self assurance in the care and management of patients is thoroughly taught in this course.

Not open to students who have credit for Operative Dentistry 413.

614-615. Principles and Practice of Operative Dentistry. Six credit hours. Winter and Spring Quarters. One lecture or quiz and fifteen clinical hours each week. Dentistry, fourth year. Dr. Semans, Dr. Hebble, Dr. Strosnider, Dr. Bottenhorn, Dr. Reif, Dr. Kitchin, Dr. McFarland, Dr. Graham, Dr. Jones.

A continuation of Operative Dentistry 613.

Not open to students who have credit for Operative Dentistry 414-415.

616. Dental Hygiene: Immunology. One credit hour. Spring Quarter. One lecture each week. Dentistry, second year. Dr. Graham.

Fundamental methods in prophylaxis technic and prevention of disease of the teeth and their adnexa. Instrument sterilization. Oral diagnosis, its place and importance.

Not open to students who have credit for Operative Dentistry 416.

617. Oral Hygiene: Immunology. Two credit hours. Autumn Quarter. One lecture or quiz and three clinical hours each week. Dentistry, third year. Dr. Graham and clinical instructors.

A study of preventive measures, especially during the prenatal period and early infancy. Consideration of prophylactic odontotomy. Best means of preservation of the deciduous teeth and consideration of dentistry for children.

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 antiseptics and disinfectants.

Not open to students who have credit for Operative Dentistry 417-418.

618. Oral Hygiene: Immunology. Three credit hours. Winter Quarter. One lecture or quiz and six clinical hours each week. Dentistry, third year. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 617.

Not open to students who have credit for Operative Dentistry 418.

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

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

Not open to students who have credit for Operative Dentistry 419.

620. Special Dental Histology. Three credit hours. Autumn Quarter. One lecture or quiz and six laboratory hours each week. Dentistry, third year. Prerequisite, Anatomy 640.

Embryology and histology of teeth and adjacent parts, with special attention to a correlation between minute anatomy and the procedures of dentistry.

621-622. Dental Medicine: Pharmacology. One credit hour. Autumn and Winter Quarters. One lecture or quiz each week. Dentistry, third year. Dr. Graham.

Principles of medicine and prescription writing. A study of the *materia medica* of drugs commonly used in dentistry, and their application in clinical dentistry.

Not open to students who have credit for Operative Dentistry 421-422.

623. Dental Medicine. Two credit hours. Spring Quarter. One lecture or quiz and three clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 622. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 622 with clinical demonstrations. Not open to students who have credit for Operative Dentistry 423.

625-626-627. Dental Medicine. Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and three clinical hours each week. Dentistry, fourth year. Prerequisite, Operative Dentistry 623. Dr. Graham and clinical instructors.

A continuation of Operative Dentistry 623 but a more advanced course approached from the therapeutic use of drugs.

Consideration of diseased conditions and the best drugs indicated. General systematic medicaments related to the practice of dentistry, anesthetics, anti-pyretics, cathartics, poisons and their antidotes.

Not open to students who have credit for Operative Dentistry 425-426-427.

628-629-630. Principles and Practice of Exodontia and X-ray. Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and three clinical hours each week. Dentistry, third year. Dr. Snyder, Dr. Postle.

The study of various conditions of the tooth and its adjacent parts, with practical demonstrations and tests by use of X-ray.

Not open to students who have credit for Operative Dentistry 428-429-430.

631. Orthodontia Principles and Technic. Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, third year, for students entering before 1932-1933; second year, for students entering 1932-1933 and thereafter. Dr. Jones and assistant.

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

Not open to students who have credit for Operative Dentistry 431.

633. Orthodontia Principles and Practice. For students who will be Seniors, Autumn 1934: Two credit hours. Autumn Quarter. One lecture or quiz and three laboratory or clinical hours each week. Dentistry, fourth year. For students who will be Juniors, Autumn 1934 and all students thereafter: One credit hour. Autumn Quarter. One lecture or quiz each week. Dentistry, third year. Prerequisite, Operative Dentistry 631. Dr. Jones and assistant.

The etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved.

Not open to students who have credit for Operative Dentistry 433.

634-635. Orthodontia Principles and Practice. Two credit hours. Winter and Spring Quarters. For students who will be Seniors, Autumn 1934: One lecture or quiz and three laboratory or clinical hours each week. Dentistry, fourth year. For students who will be Juniors, Autumn, 1934: One lecture or quiz and three laboratory or clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 631. Dr. Jones and assistant.

Methods and appliances for the correction of malposed teeth and correction in relation by harmony of the facial lines.

Not open to students who have credit for Operative Dentistry 434-435.

637-638-639. Anesthetics. Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and three clinical hours each week. Dentistry, fourth year. Dr. Snyder, Dr. Postle.

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

Not open to students who have credit for Operative Dentistry 437-438-439.

641-642-643. **Ethics, Economics, History, and Jurisprudence.** One credit hour. Autumn, Winter, and Spring Quarters. Dentistry, fourth year. Dr. Semans.

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

Not open to students who have credit for Operative Dentistry 441-442-443.

645-646-647. **Oral Surgery.** Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and three clinical hours each week. Dentistry, fourth year. Dr. Snyder, Dr. Postle.

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

Not open to students who have credit for Operative Dentistry 445-446-447.

701-702-703. **Minor Problems in Operative Dentistry.** One to three credit hours. Autumn, Winter, and Spring Quarters. Elective, Dentistry, second, third, and fourth years. Prerequisite, adequate preparation in technical courses concerned.

Students will have assigned to them special problems in Operative Dentistry.

801-802-803. **Research in Operative Dentistry.** Autumn, Winter, and Spring Quarters. Prerequisite, adequate preparation in technical and practical courses in Operative Dentistry.

Research relating to and found in the various endeavors concerning treatment and restoration to normal condition of teeth and their contiguous parts.

PATHOLOGY

Office, Hamilton Hall

PROFESSORS SCOTT AND BOTTENHORN, DR. MITCHELL, MRS. HELZ

650-651. **General Pathology.** Three credit hours. Autumn and Winter Quarters. One lecture and six laboratory hours each week. Dentistry, third year. Prerequisite, Anatomy 440 or 640. Dr. Bottenhorn, Dr. Mitchell, Mrs. Helz.

General pathology, including the etiology of diseases, disturbances of nutrition, inflammation, regeneration, and tumors.

Not open to students who have credit for Pathology 450-451.

652. **Dental Pathology.** Two credit hours. Spring Quarter. One lecture and three laboratory or clinical hours each week. Dentistry, third year. Prerequisite, Pathology 650-651. Dr. Bottenhorn.

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

Not open to students who have credit for Pathology 452.

PHYSIOLOGICAL CHEMISTRY

Office, Hamilton Hall

PROFESSOR SMITH, ASSOCIATE PROFESSOR BROWN

632. **Physiological Chemistry.** Five credit hours. Spring Quarter. Three lectures or quiz hours and six laboratory hours each week. Dentistry, first year. Prerequisite, general chemistry, qualitative analysis, and organic chemistry. Dr. Brown and assistants.

The chemistry of the carbohydrates, lipins, and proteins, together with the chemistry of digestion, absorption, metabolism, and excretion; the tissues; the internal secretions.

633. Physiological Chemistry. Two credit hours. Autumn Quarter. One lecture and one quiz hour each week. Dentistry, fourth year. Prerequisite, Physiological Chemistry 632. Dr. Brown.

The elements of human nutrition; the effects of diets on the human body; the relation of diets to dentistry.

PHYSIOLOGY

Office, 209 Hamilton Hall

PROFESSORS SEYMOUR AND NICE, ASSISTANT PROFESSORS McPEEK AND HAMLIN, AND ASSISTANTS

604. Physiology. Six credit hours. Autumn Quarter. Four lecture or recitation hours and six laboratory hours each week. Dentistry, second year. Prerequisite, Physiology 407 and 408 or 409 or equivalent biological training. Dr. Nice, Mr. Hamlin, and assistants.

The course deals with the physiology of the contractile tissues, reflexes, autonomic nervous system, lymph, blood, and circulation. 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.

Not open to students who have credit for Physiology 601 or 501.

605. Physiology. Six credit hours. Winter Quarter. Three lecture or recitation hours and nine laboratory hours each week. Dentistry, second year. Prerequisite, Physiology 604 or equivalent biological training. Dr. Nice, Mr. Hamlin, and assistants.

A continuation of Physiology 604 dealing with respiration, digestion, excretion, metabolism, central nervous system and sense organs.

Not open to students who have credit for Physiology 602 or 502.

607. Physiology. Two credit hours. Spring Quarter. Two lecture or quiz hours each week. Dentistry, second year. Prerequisite, Physiology 501 and 502, or 604 and 605. Dr. McPeek.

The application of the data of Physiology 604 and 605 to certain clinical diagnostic conditions.

Not open to students who have credit for Physiology 603, 606, or 503.

PROSTHESIS

Office, Hamilton Hall

PROFESSOR COTTRELL, ASSISTANT PROFESSORS WILTBERGER AND STARR, DR. SHUMWAY, DR. STEFFEL, DR. MARSHALL, DR. BOUCHER, DR. BERNHARD

601. Prosthetic Dentistry Technic. Four credit hours. Autumn Quarter. One lecture or quiz and nine laboratory hours each week. Dentistry, first year. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

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

Not open to students who have credit for Prosthesis 401.

602. Prosthetic Dentistry Technic. Four credit hours. Winter Quarter. One lecture or quiz and nine laboratory hours each week. Dentistry, first year. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

A continuation of Prosthesis 601.

Not open to students who have credit for Prosthesis 402.

603. Prosthetic Dentistry Technic. Five credit hours. Spring Quarter. One lecture or quiz and twelve laboratory hours each week. Dentistry, first year. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

A continuation of Prosthesis 602.

Not open to students who have credit for Prosthesis 403.

605. Prosthetic Dentistry Technic. Three credit hours. Autumn Quarter. One lecture or quiz and six laboratory hours each week. Dentistry, second year. Prerequisite, Prosthesis 603. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

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

Not open to students who have credit for Prosthesis 405.

606. Prosthetic Dentistry Technic. Two credit hours. Winter Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, second year. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

A continuation of Prosthesis 605.

Not open to students who have credit for Prosthesis 406.

607. Prosthetic Dentistry Technic. Four credit hours. Spring Quarter. One lecture or quiz and nine laboratory hours each week. Dentistry, second year. Dr. Cottrell, Dr. Shumway, Dr. Marshall.

A continuation of Prosthesis 606.

Not open to students who have credit for Prosthesis 407.

609. Prosthetic Dentistry Principles and Practice. Two credit hours. Autumn Quarter. One lecture or quiz and three laboratory or clinical hours each week. Dentistry, third year. Dr. Cottrell, Dr. Shumway, Dr. Steffel, Dr. Boucher, Dr. Bernhard.

A continuation of Prosthesis 607, with simple cases in practical work.

Not open to students who have credit for Prosthesis 409.

610. Prosthetic Dentistry Principles and Practice. Two credit hours. Winter Quarter. One lecture or quiz and three clinical hours each week. Dentistry, third year.

A continuation of Prosthesis 609.

Not open to students who have credit for Prosthesis 410.

611. Prosthetic Dentistry Principles and Practice. Four credit hours. Spring Quarter. One lecture or quiz and nine clinical hours each week. Dentistry, third year. Dr. Cottrell, Dr. Steffel, Dr. Boucher, Dr. Bernhard.

A continuation of Prosthesis 610.

Not open to students who have credit for Prosthesis 411.

613-614-615. Prosthetic Dentistry Practice. Two credit hours. Autumn, Winter, and Spring Quarters. Six clinical hours each week. Dentistry, fourth year. Prerequisite, Prosthesis 611. Dr. Cottrell, Dr. Shumway, Dr. Steffel, Dr. Boucher, Dr. Bernhard.

Clinical practice in all modern methods of restoration of lost parts, with one hour a week conference during the Autumn Quarter.

Not open to students who have credit for Prosthesis 413-414-415.

619. Dental Metallurgy. Two credit hours. Autumn Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, second year. Dr. Wiltberger.

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

Not open to students who have credit for Prosthesis 419.

621. Crown and Bridge Technic. Three credit hours. Autumn Quarter. One lecture or quiz and six laboratory hours each week. Dentistry, second year. Dr. Starr, Dr. Marshall.

Elementary course in technical work in crowns and bridges.

Not open to students who have credit for Prosthesis 421.

622. Crown and Bridge Technic. Two credit hours. Winter Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, second year. A continuation of Prosthesis 621.

Not open to students who have credit for Prosthesis 422.

623. Crown and Bridge Technic. Four credit hours. Spring Quarter. One lecture or quiz and nine laboratory hours each week. Dentistry, second year.

A continuation of Prosthesis 622.

Not open to students who have credit for Prosthesis 423.

625-626-627. Crown and Bridge Technic. Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and three laboratory hours each week. Dentistry, third year. Prerequisite, Prosthesis 623. Dr. Starr, Dr. Marshall, Dr. Crow.

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

Not open to students who have credit for Prosthesis 425-426-427.

629-630-631. Crown and Bridge Practice. Two credit hours. Autumn, Winter, and Spring Quarters. Six laboratory or clinical hours each week. Dentistry, fourth year. Prerequisite, Prosthesis 627. Dr. Starr, Dr. Marshall, Dr. Crow.

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

Not open to students who have credit for Prosthesis 429-430-431.

704-705-706. Minor Problems in Prosthesis. One to three credit hours. Autumn, Winter, and Spring Quarters. Elective, Dentistry, second, third, and fourth years. Prerequisite, adequate preparation in technical courses concerned.

Students will have assigned to them special problems in prosthesis.

950. Research in Prosthesis. Autumn, Winter, and Spring Quarters. Prerequisite, adequate preparation in technical and practical courses in prosthesis.

Research relating to and found in the various endeavors concerning the restoration of the mouth to normal condition through substitutions for lost parts.

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