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OHIO STATE UNIVERSITY BULLETIN

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College of Dentistry
Curriculum in Dentistry
Curriculum in Dental Hygiene
Curriculum in Dental Laboratory Technology

Issue for
1949 - 1950 Sessions

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COLLEGE OF DENTISTRY

ISSUE FOR
1949-1950
SESSIONS

THE OHIO STATE UNIVERSITY
COLUMBUS
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SUMMER QUARTER

June 20
June 20
June 21
July 4
July 26, 27
July 27
July 28
August 29, 30, 31,
September 1, 2
September 2
September 2

Orientation Program for all new students begins.

Latest day for registration and payment of fees before classes begin.

Classes begin, 8:00 A. M.

Independence Day. No classes.

Final Examinations, first term (at last regular class hour).

First term ends, 12 Midnight.

Second term begins, 8:00 A. M.

Final Examinations.

Summer Convocation (Commencement), 9:00 A. M.

Summer Quarter ends, 12 Midnight.

AUTUMN QUARTER

September 21-26
September 26
September 27
November 11
November 24, 25, 26
December 12, 13, 14, 15, 16
December 16
December 16

Orientation Week for all new students.

Latest day for registration and payment of fees before classes begin.

Classes begin, 8:00 A. M.

Armistice Day. No classes.

Thanksgiving Vacation.

Final Examinations.

Autumn Convocation (Commencement), 2:00 P. M.

Autumn Quarter ends, 12 Midnight.

WINTER QUARTER

January 2
January 2
January 3
February 22
March 12, 14, 15, 16, 17
March 17
March 17

Orientation Program for all new students begins.

Latest day for registration and payment of fees before classes begin.

Classes begin, 8:00 A. M.

Washington's Birthday. No classes.

Final Examinations.

Winter Convocation (Commencement), 2:00 P. M.

Winter Quarter ends, 12 Midnight.

SPRING QUARTER

March 27
March 27
March 28
May 30
June 5, 6, 7, 8, 9
June 9
June 9
June 10
June 20
July 26
July 27
September 1

Orientation Program for all new students begins.

Latest day for registration and payment of fees before classes begin.

Classes begin, 8:00 A. M.

Memorial Day. No classes.

Final Examinations.

Class Day.

Spring Convocation (Commencement).

Spring Quarter ends, 12 Midnight.

Alumni Day.

Summer Quarter (1950) classes begin.

Summer Quarter (1950) first term ends.

Summer Quarter (1950) second term begins.

Summer Quarter (1950) ends.
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1948-1949

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LYLE S. PETTIT, D.D.S. Professor of Dentistry (Pedodontia)

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Richard Deeds, D.D.S.  Instructor in Operative Dentistry

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Charles P. Thom, D.D.S.  Instructor in Dentistry (Pedodontia)

James R. Hull, D.D.S.  Instructor in Dentistry (Orthodontics)

Virgil L. Carnes, D.D.S.  Instructor in Dentistry (Oral Surgery)

John P. Beckwith, D.D.S.  Instructor in Dentistry (Operative Dentistry)

Lawrence J. Jones, D.D.S.  Instructor in Dentistry (Prosthetic Dentistry)

Kenneth R. Jefferis, D.D.S.  Instructor in Dentistry (Oral Diagnosis)

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Noel D. Hamilton, D.D.S.  Instructor in Dentistry (Operative Dentistry)

Orville E. Russell, D.D.S.  Instructor in Dentistry (Operative Dentistry)

William F. Via, D.D.S.  Instructor in Dentistry (Prosthetic Dentistry)
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 1,800 acres of land with 417 acres in the campus, 383 acres in the University Airport, and 1,000 acres in the farm. The total value of land, buildings, and equipment is $34,806,064.22.

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 (including the School of Journalism and the School of Optometry), College of Commerce and Administration (including the School of Social Administration), College of Dentistry, College of Education (including the School of Fine and Applied Arts and the School of Music), 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.

NOTE: Bulletins describing the work of the several Colleges may be obtained by addressing the University Examiner, Ohio State University, Columbus 10, Ohio, and stating the College in which the writer is interested. (For list of bulletins, see the last page.)

COLLEGE OF DENTISTRY

The College of Dentistry is located at the Neil Avenue entrance to the University Campus.

The office of the College of Dentistry 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. For information concerning the College, address the Dean of the College of Dentistry, Ohio State University, Columbus 10, Ohio.

This Bulletin is devoted to the work of the College of Dentistry including the Division of Dental Hygiene and the Division of Dental Laboratory Technology for the academic year, 1949-1950. For bulletins of the College of Dentistry, or any information in regard to entrance, address the University Examiner, Ohio State University, Columbus 10, Ohio.

GENERAL INFORMATION

VETERANS

The United States Veterans Administration has approved the Ohio State University as an institution for training under Public Law 16—Vocational Rehabilitation Act and Public Law 346—Servicemen's Readjustment Act of 1944 (G.I. Bill of Rights). The University, accordingly, encourages the enrollment of demobilized students and offers its facilities to those qualified for attendance to the full extent of its accommodations in each of its colleges and schools. The rules for admission and continued registration for demobilized students are, in general, the same as those for other students.
The regional office of the Veterans Administration located in Cincinnati, Ohio, has charge of training in Columbus. Veterans desiring information concerning assignment to The Ohio State University for vocational rehabilitation should contact that office or the Veterans Administration office located in the Armory on the campus.

Veterans who have been approved for a period of training under the provisions of the G.I. Bill of Rights should complete their admission and arrange their schedules in the college of their choice in the manner outlined in this bulletin. Upon receipt of the approved schedule and fee card, these cards, together with the Certificate of Eligibility for training issued by the Veterans Administration should be presented at the Veterans Center, Administration Building. There the student will be enrolled as a trainee, and the payment of fees and the issue of books and supplies will be arranged. The Liaison Representative will notify the Veterans Administration of the commencement of training in order that checks covering the subsistence allowance may be sent to the student.

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 each Quarter before the day designated in the University Calendar for classes to begin. Any student who fails to meet this requirement will be assessed a penalty of $1.00 for each succeeding day or fraction thereof (with a maximum of $10.00) unless excused by the Registrar. Students should 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.

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.

NON-RESIDENTS

Every student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of $75.00 each Quarter (or $38.00 each term of the Summer Quarter) of his residence in the University, in addition to other University fees. The burden of registering under the proper residence is placed upon the student. If there is any possible question as to legal residence, the matter should be brought to the attention of the Registrar and passed upon, previous to registration or 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.
The rules are as follows:

1. No student shall be considered eligible to register in the University as a resident of the State of Ohio unless he has had a *bona fide* domicile in the State twelve consecutive months. Domicile is established by acquiring a dwelling place and forming the intent to make the state a permanent home. This intent is not wholly to be inferred from declarations; all pertinent circumstances are to be considered. According the privilege of voting by an election board does not conclusively establish the fact of domicile. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.

2. No student whose domicile was outside the State of Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him, that his former domicile has been abandoned and a new domicile established in the State of Ohio and maintained for at least twelve consecutive months. No application for resident standing of one whose legal residence is not determined by that of his natural or legal guardian can be considered until the applicant is 22 years of age.

3. No student whose domicile was outside the State of Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2.

4. Minors. The domicile of a minor student shall be considered the same as that of his natural or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a non-resident minor the latter shall be considered a non-resident until twelve months after such appointment.

5. Wives. The legal residence of wives shall follow that of husbands.

6. The President will exercise his discretion as to the remission of non-resident fees in the cases of:
   a. Children of members of the United States Army, Navy, or Marine Corps, and persons who are orphans or in somewhat similar status.
   b. Non-resident minors for whom an Ohio resident has been appointed guardian.
   c. Aliens.

**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.

**STUDENT PERSONAL EXPENSE FUNDS**

The incoming student will save himself much time and trouble by taking a few simple precautions in regard to his personal expense money. The student should bring enough cash to cover all expenses for several days. If he does not wish to carry cash, he should use travellers checks, as they are readily cashed. If he does bring a check, it should be in the form of a bank draft or cashier's check. The student who has a check should not wait until he has spent all his
money before cashing the check for it may take several days to collect it. Be sure that any checks that are for payment of fees are drawn for the exact amount of the fees.

The following facts concerning the cashing of checks should be borne in mind by parents and prospective students.

(a) The Ohio State University does not cash checks.
(b) Checks for fees will be accepted by the University, but only when the check is drawn for the exact amount of the fees.
(c) Banks do not cash checks for strangers unless the check is endorsed by a customer of the bank or some person of known responsibility. This rule applies to cashier's checks, bank drafts, and certified checks.

The student who intends to use a checking account will find that an account in Columbus will be of more value than an account at home or in some other city. An account with a Columbus bank will provide a safe place for depositing funds, will help create a local credit standing, will furnish a means of depositing and cashing checks, and will help the student to understand banking practices.

STUDENT FINANCIAL AIDS

The Student Financial Aids Office is located in Rooms 111 and 112, Administration Building. Financial aids counseling is available to all students enrolled in the University. Students having financial problems should make use of the service which coordinates student employment, loans and scholarships.

EMPLOYMENT

Students interested in securing part-time employment should make application during Orientation Week. A large percentage of the student body is earning all or part of its expenses. Usually students work because they need the earnings, some work in order to secure valuable experience which will help in graduate placement or will serve as a trial work experience. Positions should be selected not only for remuneration offered but because of personal values which may be gained. The number of hours a student should work will depend upon many factors: physical stamina, work and study habits, financial need, and the academic load carried. The entering Freshman attempting to adjust his habits to college life should plan a lighter work and academic schedule than seems necessary. After the first Quarter, provided a satisfactory adjustment has been made, it will be possible to carry a heavier load. The work schedule as well as the academic schedule should always be carefully checked with the Junior Dean. The student should keep in mind, too, that it is most important always for the Employment Division to have a complete record of the student's academic schedule before a satisfactory referral can be made.

LOANS

Loans are for students in financial need. They are granted for educational purposes only.

Generally speaking, these loans are usually limited to upperclassmen and students in the Graduate School and professional colleges. In special cases, underclassmen may apply. No loans are made to students in the Twilight School or to those with less than fifteen credit hours (one full Quarter) in residence on the Ohio State Campus.

A written application, character references, parents' signatures for underage students, promissory notes signed by the borrower and cosigner are required. A repayment plan is set up for all loans, both short-term and long-term. The usual rate of interest is 4%.
GENERAL INFORMATION

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SCHOLARSHIPS

The Ohio State University has a limited number of scholarships which are awarded to outstanding students in financial need. Residents of Ohio only are eligible to apply.

For further information concerning employment, loans or scholarships, consult the bulletin, "Financial Aids for Students." Direct application for assistance may be made at the Student Financial Aids Office, 111 and 112, Administration Building. Written applications for loans are made in the Loan Annex, 1241 Derby Annex.

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 not desirable.

MEN'S HOUSING

The Stadium Dormitories offer to 800 men low-cost board and room. Men in the upper half of their high school classes may apply.

The River Road Dormitories provide housing facilities (double and single rooms) for an additional 1,000 men. Cafeteria service is available at reasonable rates.

Applications for either of the above accommodations may be made through the Office of the Dean of Men, Room 108, Administration Building.

Furnished rooms in private homes in the City of Columbus provide housing for a greater part of the men students. The rates vary from $20.00 to $30.00 a month for single rooms; $15.00 to $20.00 for double rooms (per student). One should visit Columbus three to four weeks prior to entrance to choose a suitable room. A listing of available rooms will be found in the Office of the Dean of Men.

BOARD

The University offers board on the Quarterly basis to both men and women students in Neil, Canfield, Mack, Baker, and College Road Dining Halls. Applications may be obtained by writing the Food Director's Office in Mack Hall. Board may also be secured at Pomerene Hall and Ohio Union at reasonable prices.

MARRIED STUDENTS

Housing for married students constitutes one of the University's most difficult problems. While 350 married veterans will be housed in the family units in the River Road Project, the greater number of married couples must find living quarters in the city of Columbus.

THE GEORGE WELLS KNIGHT INTERNATIONAL HOUSE

The George Wells Knight International House, 104 Fifteenth Avenue, under the supervision of a board of trustees made up of Columbus men, offers desirable living quarters to a limited number of foreign and American students.

MEN'S FRATERNITIES

A large number of men enjoy the advantages of living together in fraternity homes. These Greek letter organizations have for many years maintained establishments which provide excellent rooming and boarding arrangements. They meet the same standards of inspection that are required of the approved houses and are approved as an integral part of the University's housing arrangements. Prospective students who are interested in possible membership should write to the Dean of Men.
WOMEN STUDENTS

Every woman student whether undergraduate or graduate, must register with the Dean of Women at her office in Pomerene Hall during the first week of each Quarter.

LIVING ARRANGEMENTS FOR WOMEN

All living arrangements for women are under the supervision of the Dean of Women. Women students should apply to the Dean of Women for housing accommodations when making application for admission to the University. Under the rules of the faculty, freshman women so far as possible will be placed by the Dean of Women in the University Residence Halls. Freshmen who are admitted after the University Residence Halls are filled are then placed in University Houses or other small units of housing.

Freshmen and other students who desire to work for room and board in private homes may make such arrangements and those who desire to live with relatives in Columbus will be given permission to do so.

After September 10, 1949, housing cannot be arranged for the Autumn Quarter by correspondence. Students must consult the Dean of Women or her assistant in person for housing accommodations.

FOR FURTHER DETAILED INFORMATION

Booklets and other sources of information about the various kinds of living quarters will be gladly and promptly sent to any one who inquires. Such information will include detailed descriptions of the halls of residence and houses as well as prices for the various types of accommodation. Address requests for booklets to The Dean of Women, Pomerene Hall, The Ohio State University, Columbus 10, Ohio.

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 number of points satisfactory to the instructors involved 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.

UNIVERSITY HEALTH SERVICE

Baker Hall, Southeast Wing

Medical Staff: Dr. J. W. Wilce, Director; Dr. Theodore Allenbach, Dr. James A. Beer, Dr. Shirley Armstrong, Dr. Karl Felstorn, Dr. Zana Vaile, Dr. Earl H. Ryan, Dr. William Palchanis, and Dr. Nicholas Michael. Part time specialists and physicians at Service: Dr. H. P. Worstell, Dr. D. G. Sanor, Dr. John W. Lowery, Dr. H. M. Clodfelter, Dr. Francis Harding, Dr. Maurice Zox, Dr. Frederick C. Finke, Dr. Joseph Gallen, Dr. Wilbur G. Fisher, and Dr. Edwin H. Ellison; Dr. T. R. Williams, Dr. H. M. Platter, and other occasional consultants, including University Hospital staff, ten nurses, and two technicians.
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. Emergency service, 12:00 to 1:00.

The objects of the University Health Service are:

1. To protect, maintain, and improve the health of students; cooperation in and follow up of entrance examination; early diagnosis and control of all communicable conditions, in cooperation with other health agencies; individual health guidance, through personal conference; first aid and casual treatment of students on the campus; periodic health examinations for seniors, food handlers, and special cases; consultant specialist service for certain cases; full cooperation with family physician, other physicians, and health agencies; centralized correlation of health agencies on the campus to best educational personnel ends; maintained emphasis on individual and group preventive medicine.

2. To serve as the primary coordinating agency through centralized health records with University Personnel officials in individual student health appraisal and health problems which involve the maintenance, discontinuance, or improvement of students' university relationships.

3. To furnish a limited degree of hospitalization for observation, diagnosis, or treatment of emergency conditions, when in the judgment of University Health Service physicians or private physicians it is thought necessary. Responsibility for hospital treatment or special hospital expense is not assumed by the University Health Service. The hospitalized student is under the medical or surgical care of the senior members of the hospital staff and may be charged a moderate fee for this service. The hospitalized student has his choice of a staff or other physician.

MILITARY SCIENCE

DENTAL RESERVE OFFICERS TRAINING CORPS UNIT

On June 14, 1948, a Dental Reserve Officers Training Corps Unit was activated by the Department of the Army to be established in the College of Dentistry, The Ohio State University. This course is designed to supplement the regular Dental curriculum so that the Dental graduate may be better qualified in case of national emergency, thus benefiting his country and himself.

Qualified Juniors in the College of Dentistry may enroll in this ROTC unit. Successful completion of the basic ROTC, or at least one year of active military service, is prerequisite for enrollment in the advanced Dental course. The training is carried out through regularly organized classes which meet one hour per week for military instruction during the junior and senior years. Between the junior and senior years, students will be required to attend a six weeks summer ROTC camp. The balance of credit necessary for completion of the course shall accrue through professional didactic training. Students are paid a monetary allowance monthly in lieu of the ration. All students formally enrolled in the course must execute a written agreement with the government and must comply with all requirements of the course. Upon graduation from the college, and satisfactory completion of the ROTC course, students are eligible for a commission as First Lieutenant in the Officer Reserve Corps, U. S. Army. For further details concerning the ROTC programs, interested students should contact the Regular Army Instructor in charge of the program in this College.

OCCUPATIONAL OPPORTUNITIES SERVICE

The Occupational Opportunities Service is a University facility established to meet the need for professional guidance to students and to provide technical service to college offices who also counsel students. It works in close cooperation with the colleges in advising students in relation to their long term educational and vocational plans. This service is available free to all students in the University at any time vocational counseling is appropriate. Tests are also
administered as requested by the college offices as part of their counseling program. A continuous research program is maintained for the improvement of counseling techniques and occupational information.

Students are encouraged to use the occupational library in the Occupational Opportunities Service which contains a large collection of books and pamphlets dealing with a wide range of occupations. Suggestions are also made as to seeking information from many other sources such as college deans, junior deans, college faculty or other persons who may provide additional vocational orientation to assist the individual in making the best adjustment to life.

All students are welcome to the facilities of the Occupational Opportunities Service. Vocational counseling may be requested by any student directly or a referral may be made by a college office or by any University faculty member.

STUDENT AUTOMOBILES

In the interest of safety and orderly traffic on the Ohio State University campus, certain regulations have been set up by the Board of Trustees.

All motor-driven vehicles driven by students, regardless of ownership, must be registered on their schedule cards in the provided space. Registration should be made at the time the student enrolls for University work each Quarter, or at the time he secures access to the car. Whether driven frequently or on infrequent occasions, car registration is required. Failure to register is subject to $1.00 fine. Full statement of parking and traffic regulations are available at the Traffic Department in the Service Building.

Failure to present a violation notification doubles fines as listed.

Credits will be withheld at the end of the Quarter for unpaid fines or unanswered notification.

Students are prohibited from parking on campus except in the following locations:

A. Parking lot west of Baker Hall (entrance from Eleventh Avenue only).
B. South side of Twelfth Avenue from High Street to Baker Hall.
C. On both sides of a portion of South College Road from intersection of roads south of southeast corner of Hagerty Hall to Twelfth Avenue Drive.
D. Parking lot north of Naval Armory (entrance from Seventeenth Avenue).
E. Parking lots east of Stadium; not on roads leading to these lots.
F. Parking lot south of Military Science Building.

The University seeks your cooperation in making traffic safe for the pedestrians and motorists.

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; E abs.—Failed absent.

The mark Inc. (Incomplete) indicates (1) that the work of the student in the course is qualitatively satisfactory, but that for legitimate reasons a small fraction of the work remains to be completed; or (2) that the record of the student in the course justifies the expectation that he will obtain a passing grade, but he has been absent from the final examination, because of illness, or for some other reason which he has explained to his instructor.

As soon as the incomplete work has been made up, the instructor or department chairman (in case of the instructor's absence from the University) shall file the proper grade in the Registrar's office. Until such time as the final grade is recorded, the credit hours in the incompletely course shall not be counted or considered for any purpose except in cases of athletic eligibility.
(Athletic eligibility is governed by Intercollegiate Conference Rules which do not permit participants in intercollegiate contests to have any incomplete marks standing against them.)

At the close of each Quarter every instructor shall file with the head of his department a list of names of students who have received the grade “Inc.”, together with a statement of the work required to be completed in the course before a final grade can be reported to the Registrar.

The student is charged with the responsibility of completing the work at the earliest possible moment and of clearing his record of incomplete grades. At the close of the second Quarter in residence after the mark “Incomplete” was incurred no credit shall be accepted for courses marked “Incomplete.” The following exceptions only are allowed: except on courses given only once a year where the work must be completed in the laboratory, in which case the mark “Incomplete” must be removed within one calendar year.

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 grade of E (abs.) receives no credit either in hours or points.

The mark E cannot be removed by re-examination.

REMOVAL OF FAILURE IN A REQUIRED COURSE

At his first opportunity a student must repeat in a 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 page 16.)

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.

DEGREES WITH HONORS

The degree of Doctor of Dental Surgery (cum laude) may be recommended for a student in case he has a point ratio of 3.0 or more, for the 12 Quarters of his dental work.
CURRICULUM IN DENTISTRY

ADMISSION TO THE DENTAL CURRICULUM

METHOD OF ADMISSION

The admission of students to the College of Dentistry is in charge of the University Entrance Board.

All correspondence relating to admission, application, and credentials should be forwarded to the University Examiner, The Ohio State University, Columbus 10, Ohio.

A candidate for admission, who has completed his preprofessional work in a college or university other than this University and meets the requirements outlined below, should present an official transcript of his high school and college records at the time of application. Those who have completed their training at The Ohio State University need only to request that the Examiner review the records in the office of the Registrar.

It is suggested that students who are residents of the State of Ohio secure from the University Examiner an application form for admission to the College of Dentistry in January of the year in which they expect to enter.

The Curriculum in Dentistry is open on equal terms to both sexes.

REQUIREMENTS FOR ADMISSION

Applicants who have had their preprofessional training elsewhere than The Ohio State University must present to the Entrance Board an official certificate of college attainment showing credit for at least ninety Quarter (or sixty semester) hours of academic study from a college of approved standing. Such credit does not include Basic Military Science, Physical Education or Hygiene. It must include:

- English ....................................... 9 Quarter (or 6 semester) hours
- Biology or Zoology .......................... 9 Quarter (or 6 semester) hours
- General Chemistry ...................... 9 Quarter (or 6 semester) hours
- Organic Chemistry ..................... 9 Quarter (or 6 semester) hours
- Physics ....................................... 9 Quarter (or 6 semester) hours
- In addition, a course in Comparative Anatomy is recommended.

In order to be transferred to, or admitted to the College of Dentistry, the work of such an applicant must have been of a quality that he has received at least twice as many points as the number of credit hours undertaken in pre-professional training.

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

- Zoology 401-402 ........................................ 10 hours
- Anatomy 407 ........................................... 5 hours
- Chemistry 411-412-413 ............................. 15 hours
- Chemistry 451-452 ................................... 10 hours
- English 401, 430 ....................................... 10 hours
- Physics 411-412 or 411-413 .......................... 10 hours
- Social Science Sequence .......................... 15 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.

The above are minimal requirements for admission to the College of Dentistry. Applicants for entrance are considered on the basis of their comparative qualifications.
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 FOR DENTAL STUDENTS

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 Junior Division requirements of the College of Arts and Sciences, and 45 academic credit hours obtained while enrolled in the Senior Division of the college. Of these 45 hours, at least 25 must be in courses numbered "500" or "600" and at least 25 hours must be in the field of the natural sciences; such work in natural science being considered as a major. The major must be declared during the third Quarter of the sophomore year. A point average of 2.25 must be maintained in the courses comprising the major.
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 in this curriculum, 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 2 points per credit hour undertaken. He must also have 45 credit hours at 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 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.

CONCURRENT REGISTRATION IN PROFESSIONAL COLLEGES AND THE GRADUATE SCHOOL

A student who is registered in the College of Dentistry, the College of Law, the College of Medicine, or the College of Veterinary Medicine of this University and who also wishes to enroll for graduate study may be registered concurrently in the Graduate School if he has the proper qualifications for entrance. To secure this concurrent registration the student must first obtain from the University Examiner an admission card to the Graduate School.

When a student is registered concurrently in the Graduate School and in the College of Dentistry, the College of Law, the College of Medicine, or the College of Veterinary Medicine of this University, he may count not more than fifteen hours of professional course work toward the Master's degree and not more than thirty Quarter hours of such work toward the Ph.D. degree. Each professional college has an advisory committee which shall approve the program of graduate work proposed by each candidate for admission to the double curriculum. The approved program must be submitted to the Dean of the Graduate School for approval before the student begins his graduate work.

GRADUATE AND POST-GRADUATE WORK

Graduate courses leading to the degree of Master of Dental Science are offered by the College of Dentistry in cooperation with the Graduate School. Consult the Graduate School Bulletin for detailed information. The special fields covered are Orthodontics, Oral Surgery and Anesthesia, Periodontia, Prosthetics, and Oral Pathology and Diagnosis. All inquiries relating to work should be addressed to the Dean of the College of Dentistry, The Ohio State University, Columbus 10, Ohio.

Post-graduate courses of one week each are offered in anatomy of the head and neck, children's dentistry, clinical oral pathology, crown and bridge, dental caries control, endodontics, full denture prosthesis, operative dentistry, oral surgery and anesthesia, removable partial dentures, roentgenology, and oral hygiene. A post-graduate course in orthodontics is given on a half-time basis over a period of two years. These courses do not carry credit toward an advanced degree. Further information may be obtained by addressing the Post-Graduate Division, College of Dentistry.
FEES AND EXPENSES FOR DENTAL STUDENTS

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 except under special procedure authorized by the President.

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 $1.00 for each succeeding day or fraction thereof (with a maximum of $10.00) will be assessed for failure to comply with this rule unless excused by the Registrar.

1. Matriculation fee (non-returnable)
   Required of every student on first admission to the University .............................................................. $ 15.00

2. Incidental fees
   Incidental fees include the laboratory deposit, $85.00 of which is non-returnable
   Quarter fee for a resident of Ohio (including inci-
   dentals) ........................................................................................................ 120.00
   *Quarter fee, including non-resident fee, for a non-resi-
   dent of Ohio ..................................................................................... 195.00

3. Special fees
   (a) General Activities Fee each Quarter ......................... 5.00
   (b) Ohio Union Fee each Quarter ................................. 5.00
   (c) Breakage and Laundry Deposit (paid once each year) 20.00

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

* See Non-Residents, page 10.

NOTE: When checks given for payment of fees are not paid on presentation at bank, registration will be automatically cancelled and receipts given considered null and void.

EXPENSE OF BOOKS, TOOLS, AND INSTRUMENTS FOR DENTAL STUDENTS

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 $75.00 for books and $289.36 for tools in the first year; $75.00 for books and $420.11 for instruments in the second year; $64.00 for books and $176.60 for instruments in the third year.

Attention is called to the rule that all instruments 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 purchased by the student.

COST OF A YEAR’S WORK IN DENTISTRY

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 FOR THE FIRST YEAR

Matriculation fee (non-returnable) paid only once ...................... $ 15.00
Incidental fee, including laboratory deposit (non-returnable) .......... 360.00
General Activities fee ............................................................. 15.00
Ohio Union fee .......................................................................... 15.00
Breakage and Laundry Deposits ............................................... 20.00
Books and Instruments .............................................................. 400.00
Room Rent—Men (Private Homes) ........................................... 200.00
Board—Men (Restaurants) ........................................................ 375.00
Room and Board in Dormitories—Men ..................................... 495.00
Room and Board—Women ($170.00 a Quarter) ......................... 510.00

Total (Men in Private Homes) .................................................. $1400.00
(Men in Dormitories) ............................................................... $1320.00
(Women) ................................................................................. $1335.00

STUDENT ASSISTANTSHIPS FOR DENTAL STUDENTS

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.

HONOR SOCIETIES AND AWARDS FOR DENTAL STUDENTS

The dental honor society, Omicron Kappa Upsilon, has its Theta chapter at The Ohio State University. It elects annually to its membership those seniors with the best scholastic records. The number of students so honored may not exceed twelve percent of the graduating class.

The Callahan Commission of the Ohio State Dental Society gives annually the Callahan Award to one dental senior at both The Ohio State University and Western Reserve University. This is a cash award of thirty-five dollars and is presented on the recommendation of the faculty for the best academic and clinical record and professional attitude.

POINTS REQUIRED

All dental students are required to maintain a cumulative point-hour ratio of 1.5 at the terminations of the third, fourth, and fifth Quarters, respectively, and a cumulative point-hour ratio of 1.7 at the terminations of the sixth, seventh and eighth Quarters respectively and a cumulative point-hour ratio of 1.8 at the end of each Quarter thereafter up to and including the eleventh Quarter of registration in the Dental College. Failure to meet these requirements will result in dismissal from the University.
### COLLEGE OF DENTISTRY

### CURRICULUM IN DENTISTRY

Based on two years of pre-dental college work

#### FIRST YEAR

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<tr>
<th>Autumn Quarter</th>
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<td>Fine Arts (401)</td>
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#### SECOND YEAR

| Operative Dentistry (605)       | Operative Dentistry (606)       | Prosthetic Dentistry (607)      |
| Advanced Physiology (604)       | Advanced Physiology (605)       | Prosthetic Dentistry (623)      |
| Prosthetic Dentistry (605)      | Prosthetic Dentistry (606)      | Crown and Bridge Dentistry      |
| Prosthetic Technic (621)        | Prosthetic Dentistry (622)      | Operative Dentistry (610)       |
| Crown and Bridge Dentistry      | Crown and Bridge Dentistry      | Operative Dentistry (611)       |
| Prosthetic Dentistry (619)      | Bacteriology                    | Operative Dentistry (612)       |
| Dental Materials                | General and Pathogenic Bacteriology | Pathology (658) |
| Physiological Chem. (633)       | Orientation in Orthodontics     |                                  |
| Nutrition (683)                 |                               |                                  |

#### THIRD YEAR

| Anatomy (641)                  | Operative Dentistry (610)       | Medicine (661)                  |
| Principles of Medicine (623)   | Principles and Practice         | Principles of Medicine (661)    |
| Operative Dentistry (621)      | Prosthetic Dentistry (612)      | Principles of Medicine (661)    |
| Principles and Practice        | Crown and Bridge Dentistry      | Principles of Medicine (661)    |
| Operative Dentistry (609)      | Prosthetic Dentistry (624)      | Principles of Medicine (661)    |
| Principles and Practice        | Orthodontics                    | Principles of Medicine (661)    |
| Operative Dentistry (608)      | Operative Dentistry (625)       | Principles of Medicine (661)    |
| Principles and Practice        | Oral Diagnosis and Treatment Planning | Principles of Medicine (661) |
| Operative Dentistry (609)      | Operative Dentistry (626)       | Principles of Medicine (661)    |
| Prosthetic Dentistry (622)     | Orthodontics                    | Principles of Medicine (661)    |
| Crown and Bridge Dentistry     | Operative Dentistry (654)       | Principles of Medicine (661)    |
| Technic and Principles         | Local Anesthesia and Exodontia  | Principles of Medicine (661)    |
| Operative Dentistry (619)      |                                  | Principles of Medicine (661)    |
| Porcelain (683)                |                                  | Principles of Medicine (661)    |
| Operative Dentistry (688)      |                                  | Principles of Medicine (661)    |
| Orthodontics                   |                                  | Principles of Medicine (661)    |
| Operative Dentistry (653)      |                                  | Principles of Medicine (661)    |
| Local Anesthesia and Exodontia |                                  | Principles of Medicine (661)    |
| Operative Dentistry (670)      |                                  | Principles of Medicine (661)    |
| Preventive Dentistry and Periodontia |                                  | Principles of Medicine (661)    |
| Operative Dentistry (672)      |                                  | Principles of Medicine (661)    |
| Clinical Practice of Periodontia |                                  | Principles of Medicine (661)    |
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 academic years, the last of which is taken in this College.

4. He must have attended the degree of Doctor of Dental Surgery from this University.

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.
DEPARTMENTS OF INSTRUCTION

ANATOMY
Office, 410 Hamilton Hall

PROFESSORS KNOUFF, BAKER, AND EDWARDS, ASSISTANT PROFESSOR HAYES, AND ASSISTANTS

628. Special Advanced Anatomy. Three credit hours. One Quarter. Autumn, Winter, Spring. One conference and six laboratory hours each week. Elective, Dentistry, second, third, and fourth years. Prerequisite, Anatomy 639 or 633 or 623 and permission of the instructor. Dr. Baker, Dr. Edwards, and assistants.

Students will select or have assigned to them special regions for dissection and study.
Open only to students registered in Medicine or Dentistry and to students doubly registered in the Colleges of Medicine or Dentistry and the Graduate School.

630. Neurology. Three credit hours. Spring Quarter. Two lectures or recitations and three laboratory hours each week. Dentistry, first year. Dr. Edwards, Dr. Hayes, and assistants.

The gross and microscopic structure of the brain and spinal cord and the histology of the eye and ear. Emphasis is placed on the general principles of neurology.
Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.

631. Human Anatomy. Four credit hours. Autumn Quarter. Two lectures or recitations and six laboratory hours each week. Dentistry first year. Dr. Edwards and assistants.

The gross anatomy of the upper and lower extremities with special emphasis on the general principles of osteology, myology, syndesmology, angiology, and dermatology.
Not open to students who have credit for Anatomy 638.
Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.

632. Human Anatomy. Five credit hours. Spring Quarter. Two lectures or recitations and nine laboratory hours each week. Dentistry, first year. Dr. Edwards and assistants.

The gross anatomy of the head and neck with special stress on osteology of the skull, muscles of mastication, trigeminal nerve, temporomandibular joint and mouth in relation to dentistry.
Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.
Not open to students who have credit for Anatomy 639.

633. Human Anatomy. Four credit hours. Winter Quarter. Two lectures or recitations and six laboratory hours each week. Dentistry, first year. Dr. Edwards and assistants.

The study of the thorax and abdomen with emphasis on descriptive, topographical, and applied visceral anatomy.
Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.
Not open to students who have credit for Anatomy 638.
634. Histology. Four credit hours. Autumn Quarter. Two lectures or recitations and six laboratory hours each week. Dr. Hayes and assistants.

General histology of the tissues and special histology of the vascular and integumentary systems.

Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.

Not open to students who have credit for Anatomy 640.

635. Histology. Three credit hours. Winter Quarter. One lecture or recitation and four laboratory hours each week. Dr. Hayes and assistants.

Special histology of the digestive, respiratory, endocrine, and urogenital systems.

Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.

Not open to students who have credit for Anatomy 640.


The topographical anatomy of the head and neck as displayed by prepared sections, museum demonstrations, models, roentgenograms and prepared dissections with special attention to the correlation of the subject matter with operative dentistry.

Open only to students registered in Dentistry and to students doubly registered in the College of Dentistry and the Graduate School.

BACTERIOLOGY
Office, 210 Pharmacy and Bacteriology Building

PROFESSOR BIRKELAND, ASSISTANT PROFESSOR RIDDLE, AND ASSISTANTS

652. General and Pathogenic Bacteriology for Dental Students. Six credit hours. Winter Quarter. Four class periods and three two-hour laboratory periods each week. Dentistry, second year. Dr. Riddle and assistants.

A survey of the technics and principles of microbiology and immunology, followed by an intensive study of the more important pathogenic species, and with special reference to the bacteriology of the oral cavity.

DENTISTRY (DIVISION OF OPERATIVE DENTISTRY)
Office, 117 Hamilton Hall

PROFESSORS POSTLE, SNYDER, JONES, KITCHIN, HEBBLE, STROSNIDER, STARR, ROBINSON, AND PETTIT. ASSOCIATE PROFESSORS KAISER, AND SPANGENBERG, ASSISTANT PROFESSORS REIF, WADE, PERMAR, WILSON, AND MCCLELLAN, DR. LUCKHART, DR. COOK, DR. DEEDS, DR. BECKWITH, DR. CHAPMAN, DR. CARNES, DR. HULL, DR. JEFFERIS, DR. THOM, DR. ASHLEMAN, DR. HAMILTON, DR. RUSSELL, AND DR. MILLER

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

The study and sketching of human teeth.

602. Dental Anatomy. Four credit hours. Winter Quarter. One lecture or quiz and seven laboratory hours each week. Dentistry, first year. Dr. Strohnider, Dr. Reif.

Continuation of descriptive human dental anatomy, sketching of natural teeth and the adjacent parts, sectioning and making models of the same.
603. Dental Anatomy and Operative Technic. Two credit hours. Spring Quarter. One lecture or quiz and two laboratory hours each week. Dentistry, first year. Dr. Strosnider, Dr. Reif.

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

604. Orientation in Dentistry. One credit hour. Autumn Quarter. One lecture or quiz each week. Dentistry, first year. Dr. Postle.

605. Operative Technic. Three credit hours. Autumn Quarter. One lecture or quiz and six laboratory hours each week. Dentistry, second year. Dr. Strosnider, Dr. Reif.

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

606. Operative Technic. Three credit hours. Winter Quarter. One lecture or quiz and four laboratory hours each week. Dentistry, second year. Dr. Strosnider, Dr. Reif.

A continuation of Operative Dentistry 605.

609. Principles and Practice of Operative Dentistry. Three credit hours. Autumn Quarter. One lecture or quiz period and six clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 606. Dr. Hebble, Dr. Strosnider, Dr. Reif, Dr. McClellan, Dr. Bucher, Dr. Luckhart, Dr. Cook, Dr. Beckwith, and assistants.

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

610. Principles and Practice of Operative Dentistry. Five credit hours. Winter Quarter. One lecture or quiz and ten clinical hours each week. Dentistry, third year. Dr. Hebble, Dr. Strosnider, Dr. Reif, Dr. McClellan, Dr. Luckhart, Dr. Cook, Dr. Beckwith, and assistants.

A continuation of Operative Dentistry 609.

611. Principles and Practice of Operative Dentistry. Four credit hours. Spring Quarter. One lecture or quiz and six clinical hours each week. Dentistry, third year. Dr. Hebble, Dr. Strosnider, Dr. Reif, Dr. McClellan, Dr. Luckhart, Dr. Cook, Dr. Beckwith, and assistants.

A continuation of Operative Dentistry 610.

613. Principles and Practice of Operative Dentistry. Five credit hours. Autumn Quarter. One lecture or quiz and nine clinical hours each week. Dentistry, fourth year. Prerequisite, Operative Dentistry 611. Dr. Hebble, Dr. Strosnider, Dr. Reif, Dr. McClellan, Dr. Luckhart, Dr. Cook, Dr. Beckwith, and assistants.

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.

614-615. Principles and Practice of Operative Dentistry. Five credit hours. Winter and Spring Quarters. One lecture or quiz and eight clinical hours each week. Dentistry, fourth year. Dr. Hebble, Dr. Strosnider, Dr. Reif, Dr. McClellan, Dr. Luckhart, Dr. Cook, Dr. Beckwith, and assistants.

A continuation of Operative Dentistry 613.


619. Porcelain Technic. One credit hour. Autumn Quarter. Two laboratory hours each week, supplemented by four lecture or quiz hours. Dentistry, third year. Dr. Starr.

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

620. Oral Histology and Embryology. Three credit hours. Spring Quarter. Two lectures or quizzes and four laboratory hours each week. Dentistry, second year. Prerequisite, Anatomy 640 or 634. Dr. Kitchin, Miss Permar.

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

621. Dental Medicine: Pharmacology and Endodontia. Two credit hours. Autumn Quarter. Two lectures or quizzes each week. Dentistry third year. Dr. Kaiser.

Principles of medicine and endodontia. A study of the materia medica of drugs commonly used in dentistry and their application in clinical dentistry. The therapy and technique of root canal surgery.

623. Dental Medicine. Two credit hours. Spring Quarter. One lecture or quiz and two clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 621. Dr. Kaiser, Dr. Chapman, and clinical instructors.

A continuation of Operative Dentistry 621 with clinical demonstrations.

626-627. Dental Medicine. Two credit hours. Winter and Spring Quarters. One lecture or quiz and two clinical hours each week. Dentistry, fourth year. Prerequisite, Operative Dentistry 623. Dr. Kaiser, Dr. Chapman, 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, antipyretics, cathartics, poisons and their antidotes.

631. Orthodontics, Principles and Technic. Two credit hours. Spring Quarter. One lecture or quiz and three laboratory hours each week. Dentistry, second year. Dr. Jones, Dr. Wade, Dr. Hull.

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

633. Orthodontics, Principles and Practice. One credit hour. Autumn Quarter. One lecture or quiz each week. Dentistry, third year. Prerequisite, Operative Dentistry 631. Dr. Jones, Dr. Wade, Dr. Hull.

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

634. Orthodontics, Principles and Practice. Two credit hours. Winter Quarter. One lecture or quiz and three laboratory or clinical hours each week. Dentistry, third year. Prerequisite, Operative Dentistry 631. Dr. Jones, Dr. Wade, Dr. Hull, Dr. Miller.

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

635. Orthodontics, Principles and Practice. Two credit hours. Spring Quarter. One lecture or quiz and two laboratory or clinical hours each week. Dentistry, third year. Dr. Jones, Dr. Wade, Dr. Hull.

A continuation of Operative Dentistry 634.
637-638-639. Anesthetics. Two credit hours. Autumn, Winter, and Spring Quarters. One lecture or quiz and two clinical hours each week. Dentistry, fourth year. Dr. Snyder, Dr. Spangenberg.

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


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

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

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

651-652. Oral Diagnosis and Treatment Planning. Two credit hours. Winter and Spring Quarters. One lecture or quiz and two clinical hours each week. Dentistry, third year. Dr. Robinson.

653-654-655. Theory and Practice of Local Anesthesia and Exodontia. One credit hour. Autumn, Winter, and Spring Quarters. One lecture or quiz and one laboratory hour each week. Dentistry, third year. Dr. Snyder.

The teaching of local anesthesia requires a review of the anatomical subjects involved in the use of local anesthesia; methods employed for the painless operation on the teeth, mouth, and adjacent structures. Also the study of post-anesthetic complications.


657. Oral Roentgenology. Three credit hours. Winter Quarter. Three lectures or quizzes and one laboratory hour each week. Dentistry, third year. Prerequisite, Operative Dentistry 630. Dr. Spangenberg.

Instruction in the principles and practice involved in roentgenology including preparation of patients, angulation of the apparatus, exposure, development of films, mounting and interpretation.

Every effort is made to correlate anatomy, physiology, and pathology with what is seen in the dental roentgenogram.

659. Orientation in Orthodontics. One credit hour. Winter Quarter. One lecture or quiz each week. Dentistry, second year. Dr. Jones.

Designed to acquaint the dental student with the general field of orthodontics. Lectures will be given on the biological relations and the mechanical means involved in the treatment of malocclusion.


This course involves the clinical applications of the principles taught in Dental Roentgenology in the junior year. A special effort is made to correlate the practice of Dental Roentgenology with the practice of other branches of dentistry. The filling out of reports involved in consultation with physicians is stressed.

664-665-666. Clinical Practice of Periodontia. One credit hour. Autumn, Winter, and Spring Quarters. Two laboratory or clinical hours each week.
Dentistry, fourth year. Prerequisite, Operative Dentistry 670 and 674. Dr. Wilson, Dr. Luckhart, and assistants.

The study of, and practical work in, the treatment of diseases affecting the periodontium. Special attention will be given to oral prophylaxis, the treatment of Vincent's infection and the treatment of various types of Parodontosis.

670. Preventive Dentistry and Periodontia. Two credit hours. Autumn Quarter. Two lectures or quizzes each week. Dentistry, third year. Dr. Wilson, Dr. Luckhart, and assistants.

A consideration of the prevention of the diseases affecting the supporting structures of the teeth, as well as a study of the effects and treatment of such diseases.

Not open to students who have credit for Operative Dentistry 617.

672-673-674. Clinical Practice of Periodontia. One credit hour. Autumn, Winter, and Spring Quarters. Three laboratory or clinical hours each week. Dentistry, third year. Dr. Wilson, Dr. Luckhart, and assistants.

Practical application of material covered in Operative Dentistry 670.

Not open to students who have credit for Operative Dentistry 618.

675. Pedodontia. One credit hour. Spring Quarter. One lecture or quiz each week. Dentistry, third year. Prerequisite, Operative Dentistry 620. Dr. Pettit and assistants.

A consideration of the shape and structure of the deciduous teeth in relation to the procedures of operative dentistry.

676. Pedodontia. One credit hour. Autumn Quarter. One lecture or quiz each week. Dentistry, fourth year. Prerequisite, Operative Dentistry 675. Dr. Pettit.

A consideration of pulp treatment in deciduous and young permanent teeth; growth and development as related to dental conditions; the prevention of dental irregularities; and the management of the juvenile patient.

677. Clinical Practice of Pedodontia. One credit hour. Autumn Quarter. Three laboratory or clinical hours each week. Dentistry, fourth year. Dr. Pettit, Dr. Thom, and assistants.

The practical application in the clinic of the didactic instruction in pedodontia.

678-679. Clinical Practice of Pedodontia. One credit hour. Winter and Spring Quarters. Two laboratory or clinical hours each week. Dentistry, fourth year. Dr. Pettit, Dr. Thom, and assistants.

A continuation of Operative Dentistry 677.

680. Oral Pathology. Three credit hours. Autumn Quarter. Two lectures or quizzes and three laboratory or clinical hours each week. Dentistry, third year. Prerequisite, Pathology 651 or 653 and Operative Dentistry 620. Dr. Robinson.

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

Not open to students who have credit for Pathology 654.


Students will have assigned to them special problems 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.
DENTISTRY (DIVISION OF PROSTHETIC DENTISTRY)
Office, Hamilton Hall

PROFESSORS BOUCHER, STARR, AND STEFFEL, ASSOCIATE PROFESSOR DEW, AS-
SISTANT PROFESSORS MARSHALL, CROW, TRIPPY, AND KREIDER, DR. LARRIMER,
DR. BLUFF, DR. JONES, DR. JOHANNES, DR. VIA, AND ASSISTANTS

601. Prosthetic Dentistry Technic. Four credit hours. Autumn Quarter.
One lecture or quiz and six laboratory hours each week. Dentistry, first year.
Dr. Boucher, Dr. Marshall, Dr. Jones, Dr. Johannes.
The foundation principles in restoration of lost teeth by means of plates.
Laboratory work correlates with didactic.

602. Prosthetic Dentistry Technic. Four credit hours. Winter Quarter.
One lecture or quiz and eight laboratory hours each week. Dentistry, first year.
Prerequisite, Prosthetic Dentistry 601. Dr. Larrimer, Dr. Marshall, Dr. Jones,
Dr. Johannes.

603. Prosthetic Dentistry Technic. Five credit hours. Spring Quarter.
One lecture or quiz and eight laboratory hours each week. Dentistry, first
year. Prosthetic Dentistry 602. Dr. Steffel, Dr. Marshall, Dr. Jones,
Dr. Johannes.

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

606. Prosthetic Dentistry Technic. Two credit hours. Winter Quarter.
One lecture or quiz and two laboratory hours each week. Dentistry, second
year. Prerequisite, Prosthetic Dentistry 605. Dr. Johannes, Dr. Marshall.

607. Prosthetic Dentistry Technic. Three credit hours. Spring Quarter.
One lecture or quiz and five laboratory hours each week. Dentistry, second
year. Prerequisite, Prosthetic Dentistry 606. Dr. Boucher, Dr. Marshall.

609. Prosthetic Dentistry Principles and Practice. Two credit hours.
Autumn Quarter. One lecture or quiz and two laboratory or clinical hours
each week. Dentistry, third year. Prerequisite, Prosthetic Dentistry 607. Dr.
Boucher and clinic staff.
Simple cases in practical work.

610. Prosthetic Dentistry Principles and Practice. Two credit hours. Winter
Quarter. One lecture or quiz and two clinical hours each week. Dentistry,
third year. Prerequisite, Prosthetic Dentistry 609. Dr. Steffel and clinic staff.

611. Prosthetic Dentistry Principles and Practice. Three credit hours.
Spring Quarter. One lecture or quiz and four clinical hours each week. Den-
tistry, third year. Prerequisite, Prosthetic Dentistry 610. Dr. Steffel and clinic
staff.
The principles, technic, and practice of partial dentures.

613. Prosthetic Dentistry Principles and Practice. Three credit hours.
Autumn Quarter. One lecture or quiz and four clinical hours each week. Den-
tistry, fourth year. Prerequisite, Prosthetic Dentistry 611. Dr. Boucher, Dr.
Steffel, and clinic staff.
Advanced lectures and clinical practice in partial dentures.

614-615. Prosthetic Dentistry Principles and Practice. Three credit hours.
Winter and Spring Quarters. One lecture or quiz and four clinical hours each
week. Dentistry, fourth year. Prerequisite, Prosthetic Dentistry 613. Dr. Boucher, Dr. Steffel, and clinic staff.

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


A study of the source, methods of manufacture, physical and chemical properties, and the use of the materials employed in restorative dentistry.

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, Dr. Bluff.

Elementary course in technical work in crowns and bridges.

622. Crown and Bridge Technic. Two credit hours. Winter Quarter. One lecture or quiz and two laboratory hours each week. Dentistry, second year.

A continuation of Prosthetic Dentistry 621.

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

A continuation of Prosthetic Dentistry 622.

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

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

627. Crown and Bridge Technic and Practice. Two credit hours. Spring Quarter. One lecture or quiz and two laboratory hours each week. Dentistry, third year. Dr. Starr, Dr. Marshall, Dr. Crow, Dr. Dew, Dr. Bluff.

A continuation of Prosthetic Dentistry 626.

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

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


Students will have assigned to them special problems in prosthetic dentistry.


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

GRADUATE COURSES IN DENTISTRY

For requirements, see the Bulletin of the Graduate School.

two years. Required of all students majoring in Oral Surgery. Dr. Snyder, Dr. Spangenberg.

The importance of accurate diagnosis and good judgment in bringing the treatment of surgical conditions of the teeth and contiguous structures to a satisfactory conclusion will be stressed. Advanced surgical techniques and practical procedures with special emphasis on the related basic fields of anatomy, physiology, and pathology. Recent advances in local and general anesthesia and their relation to practical procedures will be considered.

802. Special Problems in Clinical Orthodontics. One to five credit hours. Repeated in Autumn, Winter, and Spring Quarters for two years. Required of all students majoring in Orthodontics. Dr. Jones, Dr. Wade.


803. Special Problems in Clinical Periodontia. One to five credit hours. Repeated in Autumn, Winter, and Spring Quarters for two years. Required of all students majoring in Periodontia.

Diagnosis and treatment of Periodontal disease. Emphasis will be placed on correlation between the diseases of the Periodontium to probable systemic maladjustments as well as maladjustments of a purely dental nature.

804. Histological Laboratory Technique. One to three credit hours. Autumn and Winter Quarters. Required of all graduate students in Dentistry. Dr. Kitchin, Miss Permar.

The preparation of oral and dental tissues for microscopic study, including tissue fixation, grinding of tooth and bone sections, decalcification of combined hard and soft tissues with subsequent celloidin embedding, paraffin embedding of soft tissues, cutting of embedded material, staining and mounting and study of sections.

805. Seminar in Dentistry. One credit hour. Repeated in Autumn, Winter, and Spring Quarters for two years. One seminar each week. Required of all graduate students in Dentistry. Dr. Jones, Dr. Snyder, Dr. Kitchin, Dr. Spangenberg, Dr. Boucher, Dr. Robinson, Miss Permar.

The purpose of these seminars is to acquaint those whose interest is specialized with recent advances in all branches of dental science. Instructors and students will participate and subjects will be assigned with reference to the field of the individual's specialization. Review of original literature will form a basis for such discussions. The following topics will be considered: (1) Problems in diagnosis and treatment of surgical conditions of the oral cavity and contiguous structures. (2) Correlation of problems in Periodontia with related sciences. Physiology and Pathology of the bone will be considered. The relation of nutrition to Periodontia will be discussed. (3) A study of special topics related to Orthodontics. (4) Problems in Roentgenographic diagnosis will be discussed with special emphasis on existing microscopic pathology. (5) Discussion of special topics in the fields of Dental Histology and Embryology.

806. Special Problems in Clinical Prosthetic Dentistry. One to five credit hours. Repeated in Autumn, Winter, and Spring Quarters for two years. Required of all students majoring in Prosthetic Dentistry. Dr. Boucher and assistants.

The diagnosis and treatment of lost or congenitally absent parts of the mouth and face by means of prosthetic appliances. The construction of special prosthetic appliances.

807. Special Problems in Oral Pathology and Diagnosis. One to six credit hours. Repeated Autumn, Winter, and Spring Quarters for two years. Required of all students majoring in Oral Pathology and Diagnosis. Dr. Robinson.
The interrelationship of gross, microscopic, and clinical pathology will be stressed. Functional as well as morphologic changes will be considered with evaluations of their importance in diagnosis of oral disease. Current advances in the field of oral pathology and diagnosis will be discussed. An oral pathology conference will be repeated for one hour each week in the Autumn, Winter, and Spring Quarters. Microscopic material from clinical biopsies will be reviewed as received and supplemented by material from the Registry of Oral and Dental Pathology of the Army Pathology Institute and from other sources.

950. Research. Credits to be arranged. Autumn, Winter, and Spring Quarters.
Original work to supply the basis for a thesis.

FINE AND APPLIED ARTS
Office, 104 Hayes Hall
PROFESSOR SEIBERLING AND STAFF

An introduction to the principles of visual form by means of their execution in graphic media.
Not open to students who have credit for Fine Arts 421 or 423.

MEDICINE
Office, Kinsman Hall
ASSISTANT PROFESSOR DeLOR

661. Principles of Medicine. Two credit hours. Spring Quarter. Two lecture or demonstrations each week. Dentistry, third year. Dr. DeLor and Medical staff.
A survey course in Medicine to dental students in which are considered the infectious, the deficiency, and the systemic diseases. From each group representative diseases are selected for detailed consideration from which general principles may be outlined. Whenever the clinical material is available, patient demonstrations are made before the class.

MILITARY SCIENCE
RESERVE OFFICERS TRAINING CORPS
MEDICAL DEPARTMENT UNITS
DENTAL CORPS
Office, Hamilton Hall

MAJOR GEORGE H. PARROT, JR., DENTAL CORPS, UNITED STATES ARMY

The Dental Corps is open to those students regularly enrolled in the College of Dentistry.

630-631-632. First Year Basic Dental Course. One credit hour each Quarter. Autumn, Winter, Spring.
Military subjects as prescribed by the Department of the Army.

680-681-682. Second Year Basic Dental Course. One credit hour each Quarter. Autumn, Winter, Spring.
Military subjects as prescribed by the Department of the Army.
730-731-732. First Year Advanced Dental Course. One credit hour each Quarter. Autumn, Winter, Spring. Prerequisite, Basic Course or appropriate military service.
Military subjects as prescribed by the Department of the Army.

780-781-782. Second Year Advanced Dental Course. One credit hour each Quarter. Autumn, Winter, Spring. Prerequisite, first year Advanced Course. Military subjects as prescribed by the Department of the Army.

PATHOLOGY
Office, 310 Hamilton Hall
PROFESSOR von HAAM, DR. TOWBIN, AND ASSISTANTS

653. General Pathology. Five credit hours. Spring Quarter. Three lectures and six laboratory hours each week. Dentistry, second year. Prerequisite, Anatomy 640 or 634-635. Dr. Towbin and assistants.
General pathology, including the etiology of diseases, disturbances of nutrition, inflammation, regeneration, and tumors.

PHYSIOLOGICAL CHEMISTRY
Office, 113 Hamilton Hall
PROFESSORS SMITH AND BROWN

632. Physiological Chemistry. Six credit hours. Spring Quarter. Four 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, lipids, 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, second 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, 204 Hamilton Hall
PROFESSOR HITCHCOCK AND STAFF

604. Advanced Physiology. Five credit hours. Autumn Quarter. Three lecture or recitation hours and six laboratory hours each week. Dentistry, second year. Dr. Hitchcock and staff.
The course covers the neuromuscular system, the central nervous system, special senses, and body fluids.
Not open to students who have credit for Physiology 601.

605. Advanced Physiology. Seven credit hours. Winter Quarter. Five lecture or recitation hours and six laboratory hours each week. Dentistry, second year. Prerequisite, Physiology 604 or equivalent biological training. Dr. Hitchcock and staff.
The course covers the cardiovascular system, respiration, digestion, metabolism, excretion, the endocrines, and reproduction.
Not open to students who have credit for Physiology 602.
DIVISION OF DENTAL HYGIENE

Dean of the College of Dentistry ........................................ Wendell D. Postle
Offices: 117 Hamilton Hall—UN-3148, Ext. 8200, 8209
1714 N. High St.—UN-8954
Residence: 1964 Collingswood Rd.—KI-3731

Secretary of the College of Dentistry ................................. Paul C. Kitchin
Office: 117 Hamilton Hall—UN-3148, Ext.748, 8200
Residence: 474 E. Dunedin Rd.—LA-2898

Director ............................................................................ Harry D. Spangenberg, Jr.
Office: 221 Hamilton Hall—UN-3148, Ext. 8228
Residence: 59 W. Short St., Worthington—FR-2-5547

Supervisor ................................................................. (Mrs.) Bettymarie Hunker
Office: 124 Hamilton Hall—UN-3148, Ext. 249, 8200
Residence: 62 13th Ave.—WA-1341

Assistant ........................................................................ Vivian Wilson
Office: 124 Hamilton Hall—UN-3148, Ext. 249
Residence: 1771 Cambridge Blvd.—KI-1828

Assistant ................................................................. (Mrs.) Eileen Hoehn
Office: 124 Hamilton Hall—UN-3148, Ext. 249
Residence: 506 S. Wilson Ave.—FE-1181

Assistant ........................................................................ Sally Miller
Office: 124 Hamilton Hall—UN-3148, Ext. 249
Residence: 2573 Fair Ave.—DO-6821

STAFF
1948-1949

Harry D. Spangenberg, Jr., D.D.S., M.S. in Dent. Surg.  Associate Professor of Dentistry (X-ray and Oral Surgery); Director of Dental Hygiene

Bettymarie Hunker, G.D.H., B.S.  Instructor in Dental Hygiene, Supervisor of Dental Hygiene

Paul Clifford Kitchin, M.S., D.D.S.  Professor of Dentistry (Oral Embryology, Histology, and Pathology) (Research); Secretary of the College of Dentistry

Lytle S. Pettit, D.D.S.  Professor of Dentistry (Pedodontia)

Hamilton B. G. Robinson, M.S., D.D.S.  Professor of Dentistry (Oral Pathology and Diagnosis)

Harold Ernest Burtt, A.B., A.M., Ph.D.  Professor of Psychology

Perry Perdue Denune, A.B., M.A., Ph.D.  Professor of Sociology

William H. Hildreth, B.Sc., M.A., Ph.D.  Professor of English

Franklin H. Knowler, A.B., A.M., Ph.D.  Professor of Speech

David Franklin Miller, A.B., M.A., Ph.D.  Professor of Zoology and Entomology

Grant L. Stahly, B.S., M.S., Ph.D.  Professor of Bacteriology

J. Henry Kaiser, Ph.C., B.S., D.D.S.  Associate Professor of Dentistry (Dental Medicine)

Frances M. McKenna, R.N., B.S., M.A., Associate Professor of Nursing and Director of the School of Nursing

William C. Dew, D.D.S.  Associate Professor of Dentistry (Prosthetic Dentistry)

Mary Eloise Green, M.S.  Assistant Professor of Home Economics

W. James Leach, B.S., M.A.  Assistant Professor of Anatomy

Richard Deeds, D.D.S.  Instructor in Dentistry (Operative Dentistry)
CURRICULUM IN DENTAL HYGIENE
offered by the
COLLEGE OF DENTISTRY
DIVISION OF DENTAL HYGIENE

The College of Dentistry of the Ohio State University offers the following curriculum in Dental Hygiene. This curriculum consists of two academic years (six Quarters) and is presented under the supervision of a selected group from the faculty of the College of Dentistry.

GENERAL STATEMENTS

In order to have a better and more complete understanding of the courses included in the Division of Dental Hygiene, it is advisable for the reader to be familiar with the duties of Graduate Dental Hygienists.

Dental Hygienists are employed in dental offices, industrial clinics, hospitals, and, under Civil Service regulations, in Federal Institutions. In these positions, their work includes giving oral prophylactic care to the patients; assisting in operative, surgical and laboratory procedures; and, in some instances, performing the duties of a receptionist. Their knowledge of dental techniques plus their ability to meet and handle people intelligently are necessary for success.

Dental Hygienists are also employed by health educational departments. In a program of dental hygiene education they teach the principles of proper mouth hygiene to groups of children or adults through the local school. They are largely responsible for the organization and administration of this type of service. This kind of work calls for a Dental Hygienist with a knowledge of teaching methods plus adequate dental hygiene training.

The curriculum in Dental Hygiene was established in order to fulfill the needs of these various fields of dental hygiene employment. By careful application during the six Quarters, the student should obtain a workable knowledge of the many aspects of Dental Hygiene.

More than thirty states have enacted laws providing for the granting of licenses to those who have completed the prescribed courses in Dental Hygiene. The legal requirements for a license vary in different states. It is strongly recommended that the prospective student inform herself of the requirements of the state in which she intends to practice before registering for the Curriculum in Dental Hygiene.

ADMISSION TO DENTAL HYGIENE

The Curriculum in Dental Hygiene is open to women only.

REQUIREMENTS FOR ADMISSION

An applicant for admission must present a certificate of graduation from an accredited high school. The following units are necessary:

- English ................................................. 3 units
- American History and Civics ..................... 1 unit
- Algebra ................................................. 1 unit
- Plane Geometry ....................................... 1 unit

A student deficient in Algebra, Plane Geometry, or American History and Civics may be entered with a condition in that subject. A condition must be removed by enrolling and completing the course before recommendation for graduation from the University may be authorized.
Dental Hygiene

Although it is not required, the student will find it helpful if she has included in her high school work units of Physics, Chemistry, or a Biological Science.

There are certain personal qualities for admission to the curriculum in Dental Hygiene which are equally as important as the scholastic requirements. Such qualities are neatness, poise, a pleasant speaking voice, courteous manner and the willingness to serve. Her position will require the utmost in cooperation and the ability to accept constructive criticism. Working with the patients' mouths must present no mental hazard on the part of the prospective student. The appearance of the individual wishing to pursue this course of training will to a great extent determine her success; thus, it is imperative that she possess good health including teeth in a state of good repair. A natural manual dexterity is to her advantage as she will more quickly adapt herself to the use of the dental instruments. Left-handedness is a decided handicap, although it is not impossible for her to learn to use her right hand. Her vision should be good.

METHOD OF ADMISSION

Application for admission to the Division of Dental Hygiene is made to the Entrance Board of the Ohio State University. Suitable applications, forms, and directions will be furnished by this Board upon request.

Upon receipt of the prospective student's application by this board, it will be examined for entrance eligibility. The Supervisor of the Division of Dental Hygiene will be notified of the application, and the prospective student should arrange for a personal interview. This interview is required of all applicants to the curriculum in Dental Hygiene. No application will be accepted by the Entrance Board until the interview has been completed, therefore, it is the responsibility of the applicant to see that this is arranged.

Correspondence relating to admission should be sent to the University Examiner, The Ohio State University, Columbus 10, Ohio.

ADVANCED STANDING

The application of an advanced student will be considered by the Administrative Committee of the Division of Dental Hygiene. A suitable curriculum will be arranged to satisfy the individual student's requirements for graduation.

REGISTRATION

Upon acceptance into the University by the Entrance Board, the applicant will be notified. She will receive her fee card and the program of studies for the first Quarter by mail. Upon payment of the fees, the student will be officially entered into the University and the Division of Dental Hygiene, College of Dentistry.

ORIENTATION PROGRAM OF REQUIRED ENTRANCE PROJECTS

All new students in the undergraduate colleges and schools, both Freshmen and Transfer students with advanced standing, are expected to take part in a series of orientation projects which are conducted on the day or days preceding the opening of their first Quarter of residence.

(a) New students entering the Professional Schools and Colleges of Dentistry, Law, Medicine, Optometry, Pharmacy, and Veterinary Medicine are expected to take only the Physical Examination, including Chest X-ray and Speech and Hearing Test, which are University requirements by Rule 151.

(b) New students entering the Graduate School are required to take the same Physical Examination projects and by Rule 152 are required to take also the Ohio State Psychological Examination if their graduate

(c) New students transferring here with B.A. and B.Sc. degrees earned elsewhere, but enrolling in undergraduate Colleges for special programs are required by Rules 151 and 152 to take the Physical Examination projects and the Ohio State Psychological Examination.

Ordinarily, excuses from Required Entrance Projects of the Orientation Week Program are not granted, and employed students are expected to make plans to take part in projects when the Orientation Program starts. Printed instructions for each Quarter will be mailed either by the Registrar's office, with the approved schedule card and fee bill, or by the office handling arrangements for this program. All new students are expected to follow the instructions in this program in every detail. Tests are essential to assure places in classes and registration will not be considered complete until all required entrance projects have been finished.

Projects each Quarter include a complete physical examination, intelligence test, speech and hearing test, and placement examinations in English, Chemistry, Hygiene, Mathematics, French, German, and Spanish. Faculty and college office advisers are available for interviews to discuss the educational plans of new students.

In Orientation Week each Fall Quarter provision is made for several special meetings. These include a student convocation which is addressed by the President, and a Sunday convocation. The undergraduate Colleges conduct college meetings at which the Dean and other College officers have an opportunity to meet their new students and interpret the college program. The Dean of Women and the Dean of Men conduct conferences where information is presented on the extra-curricular activities of the University. An illustrated lecture on University History supplies background for understanding a state university and its organization. Social events are included in the general program.

Orientation Programs are planned for each of the four Quarters of the school year. In January, March, and June of each year, one-day Orientation programs are held on the Mondays preceding the opening of classes on Tuesdays for these three Quarters. In September a more comprehensive program called Orientation Week starts on Wednesday for a six-day period preceding the opening of classes on Tuesday for the Fall Quarter. Inquiries should be addressed to Orientation Program Office, William S. Guthrie, Director, University Hall, Room 1 (campus telephone 104).

FEES 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 except under special procedure authorized by the President.

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 sufficient money to cover all his fees and deposits.

A penalty of $1.00 for each succeeding day or fraction thereof (with a
DENTAL HYGIENE

maximum of $10.00) will be assessed for failure to comply with this rule unless excused by the Registrar.

1. Matriculation fee (non-returnable)
   Required of every student on first admission to the University $ 15.00

2. Incidental fees
   Incidental fees include the laboratory deposit, $30.00
   of which is non-returnable
   Quarter fee for a resident of Ohio .......................... 65.00
   *Quarter fee for a non-resident of Ohio .................... 140.00

3. Special fees
   (a) General Activities Fee each Quarter ...................... 5.00
   (b) Ohio Union Fee each Quarter ............................. 5.00
   (b) Breakage and Laundry Deposit (paid once a year) ...... 5.00
   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.
   (c) Physical Education Fee .................................... 5.00

NOTE: When checks given for payments of fees are not paid on presentation at bank, registration will be automatically cancelled and receipts given considered null and void.
* See Non-Residents, page 10.

APPROXIMATE COST OF THE COMPLETE COURSE

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Matriculation Fee (paid only once)</td>
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<tr>
<td>Incidental Fee ($35.00 per Quarter)</td>
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<tr>
<td>Laboratory Deposit (non-returnable)</td>
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<tr>
<td>Special Fees</td>
<td></td>
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<tr>
<td>General Activities Fee ($5.00 per Quarter)</td>
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</tr>
<tr>
<td>Ohio Union Fee ($5.00 per Quarter)</td>
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<tr>
<td>Physical Education Fee ($5.00 per Quarter)</td>
<td>30.00</td>
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<tr>
<td>Breakage and Laundry Deposit (paid once each year)</td>
<td>10.00</td>
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<tr>
<td>Books, Instruments, and Uniforms</td>
<td>125.00</td>
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<tr>
<td>Room and Board (about $170.00 per Quarter)</td>
<td>1020.00</td>
</tr>
<tr>
<td>Total Estimated Cost of the Six Quarters</td>
<td>$1650.00</td>
</tr>
</tbody>
</table>

STUDENT FINANCIAL AIDS

The Student Financial Aids Office is located in Rooms 111 and 112, Administration Building. Financial aids counseling is available to all students enrolled in the University. Students having financial problems should make use of the service which coordinates student employment, loans and scholarships.

EMPLOYMENT

Students interested in securing part-time employment should make application during Orientation Week. A large percentage of the student body is earning all or part of its expenses. Usually students work because they need the earnings, some work in order to secure valuable experience which will help in graduate placement or will serve as a trial work experience. Positions should be selected not only for remuneration offered but because of personal values which may be gained. The number of hours a student should work will depend upon many factors: physical stamina, work and study habits, financial need, and the academic load carried. The entering Freshman attempting to adjust his habits to college life should plan a lighter work and academic schedule than seems necessary. After the first Quarter, provided a satisfactory
adjustment has been made, it will be possible to carry a heavier load. The work schedule as well as the academic schedule should always be carefully checked with the Director. The student should keep in mind, too, that it is most important always for the Employment Division to have a complete record of the student's academic schedule before a satisfactory referral can be made.

**LOANS**

Loans are for students in financial need. They are granted for educational purposes only.

Generally speaking, these loans are equally limited to upperclassmen and students in the Graduate School and professional colleges. In special cases, underclassmen may apply. No loans are made to students in the Twilight School or to those with less than fifteen credit hours (one full Quarter) in residence on the Ohio State Campus.

A written application, character references, parent's signatures for under age students, promissory notes signed by the borrower and cosigner are required. A repayment plan is set up for all loans, both short-term and long-term. The usual rate of interest is 4%.

**SCHOLARSHIPS**

The Ohio State University has a limited number of scholarships which are awarded to outstanding students in financial need. Residents of Ohio only are eligible to apply.

For further information concerning employment, loans or scholarships, consult the bulletin, "Financial Aids for Students." Direct application for assistance may be made at the Student Financial Aids Office, Rooms 111 and 112, Administration Building. Written applications for loans are made in the Loan Annex, 1241 Derby Annex.

**SOCIETIES AND AWARDS**

The Junior American Dental Hygiene Association functions to elevate and sustain the standards of the Dental Hygiene profession.

Alpha Kappa Gamma, the Dental Hygiene professional sorority, presents each year a key to that graduating senior who is outstanding in leadership, scholarship, character, and professional aptitude.

**RULES AND REGULATIONS**

To save the duplication of informative material, all general information for students has been placed on the first pages of this bulletin.

It is recommended that the student read these sections carefully. An understanding of the information presented will avoid confusion.

For rules and regulations concerning student responsibility and procedure, study the booklet, "University Rules and Regulations for Students," a copy of which may be obtained from the Registrar.

**WARNING FOR LOW STANDING AND DISMISSAL**

Any student who falls below a point-hour ratio of 1.50 at the close of the second Quarter; 1.60 at the close of the third Quarter; 1.70 at the close of the fourth Quarter; or 1.80 at the close of the fifth Quarter shall be warned and considered for dismissal from the Division of Dental Hygiene by the Administrative Committee.

Any student who falls below 1.50 at the end of the third Quarter shall be dismissed from the University.

If, at any time, the preparation, progress or success of a student in her assigned work is deemed unsatisfactory, the Administrative Committee of the
Division of Dental Hygiene shall recommend her dismissal. Also, any student who is found guilty of giving or accepting assistance during an examination shall be dismissed from the Division of Dental Hygiene.

**REQUIREMENTS FOR GRADUATION**

At the close of the second year, a student who has completed the curriculum in Dental Hygiene will receive the certificate of Graduate Dental Hygienist, on the following conditions:

1. She must be at least eighteen years of age, and of good moral character which includes good conduct in college.

2. She must have the necessary number of credit points required for graduation which shall amount to not less than 1.8 times the number of credit hours undertaken at this institution.

3. She must have completed satisfactorily the six Quarters of the curriculum of Dental Hygiene at the Ohio State University, College of Dentistry, Division of Dental Hygiene. In the case of a transfer student from another institution (Course for Dental Hygienists), she must have completed satisfactorily the equivalent of the six Quarters required at the Ohio State University, the last three Quarters of which must be taken in the College of Dentistry, Division of Dental Hygiene, The Ohio State University.

4. She must have attended at least 85% of the scheduled classes and clinics.

5. She must have discharged all her financial obligations to the College of Dentistry.

6. She must be present at the time and place scheduled by the Director of the Division of Dental Hygiene for final examinations and her absence from an examination in a given subject will indicate failure in that subject and will be entered as such against her.

**STATE BOARD REQUIREMENTS**

To practice dental hygiene in the State of Ohio, the Graduate Dental Hygienist must pass the practical and theoretical examinations given by the Ohio State Dental Board.

Upon the successful completion of these examinations, she will receive her license. The time, place and manner of applying for these examinations will be made known to the student during her last Quarter in the Division of Dental Hygiene.

**CURRICULUM IN DENTAL HYGIENE**

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dental Hygiene (401) 3</td>
<td>English (411) 3</td>
<td>English (412) 3</td>
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<tr>
<td>Dental Anatomy</td>
<td>Zoology (402) 6</td>
<td>Home Economics (440) 5</td>
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<tr>
<td>English (410) 8</td>
<td>Anatomy (604) 6</td>
<td>Nutrition</td>
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<tr>
<td>Zoology (401) 6</td>
<td>Bacteriology (409) 8</td>
<td>Dental Hygiene (402) 1</td>
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<tr>
<td>Speech (400) 5</td>
<td>Physical Education (422) 1</td>
<td>Dental Anatomy (501) 2</td>
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<tr>
<td>Physical Education (421) 1</td>
<td>Hygiene (400) 1</td>
<td>General Pathology</td>
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<tr>
<td>Dental Hygiene (403) 8</td>
<td>Dental Hygiene (404) 1</td>
<td>Oral Pathology</td>
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<tr>
<td>Dental Prophylaxis</td>
<td>Oral Hygiene</td>
<td>Dental Hygiene (508) 1</td>
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<tr>
<td>Dental Hygiene (405)</td>
<td>Oral Histology and Embryology</td>
<td>Physical Education (423) 1</td>
</tr>
</tbody>
</table>
COMBINATION CURRICULA

ARTS—DENTAL HYGIENE

A combination curriculum in the College of Arts and Sciences has been designed for women who wish a liberal education along with the professional training in Dental Hygiene. Upon satisfactory completion of the twelve-Quarter program, the student will be recommended for the Bachelor of Arts degree and certification as Graduate Dental Hygienist.

For information regarding this curriculum, the prospective student should consult the bulletin of the College of Arts and Sciences. Additional information may be obtained from the Director or Supervisor of the Division of Dental Hygiene and the Junior Dean of the College of Arts and Sciences.

EDUCATION—DENTAL HYGIENE

The combination curriculum in the College of Education is designed for those women who wish to obtain teachers' training in the field of Dental Hygiene. Upon completion of the twelve Quarter program, the student will be recommended for the Bachelor of Science degree in Education, the teaching certificate in Dental Hygiene Education, and the certificate as Graduate Dental Hygienist.
DEPARTMENTS OF INSTRUCTION

ANATOMY
Office, 410 Hamilton Hall
PROFESSOR KNOUFF AND ASSISTANT PROFESSOR LEACH

504. Elementary Anatomy. Five credit hours. One Quarter. Autumn, Winter, Spring. Two lectures and six laboratory hours each week. Prerequisite, Zoology 401 or equivalent. Zoology 402 is recommended. Required of students in Optometry, Occupational Therapy, Medical Technology, Dental Hygiene, Nursing and majors in Physical Education. Others may elect with the consent of the instructor. Not open to pre-medical or pre-dental students. Mr. Leach.

A course dealing with the fundamental principles of anatomy as illustrated by the dissection of the organ-systems of the cat supplemented by frequent demonstrations of human material.

BACTERIOLOGY
Office, 210 Pharmacy and Bacteriology Building
PROFESSORS BIRKELAND AND STAHL, AND ASSISTANTS

409. Bacteriology for Dental Hygienists. Three credit hours. Winter Quarter. Two class periods and two two-hour laboratory periods each week. Mr. Stahly and assistants.

A survey of techniques and principles of bacteriology with reference to sterilization, asepsis, and disease prevention.

Open only to students in the Dental Hygiene curriculum.

DENTISTRY, DIVISION OF DENTAL HYGIENE
Office, 117 Hamilton Hall
PROFESSORS KITCHIN, ROBINSON, AND PETTIT, ASSOCIATE PROFESSORS KAISER, DEW, AND SPANENBERG, DR. DEEDS, MRS. HUNKER, MISS WILSON, MRS. HOEHN, AND MISS MILLER

401. Dental Anatomy. Three credit hours. Autumn Quarter. One lecture or quiz and six laboratory hours each week. Dental Hygiene, first year. Dr. Dew.

A study of the nomenclature, the anatomical forms and gross structure of the deciduous and permanent teeth and their investing structures. The laboratory work will include the reproduction of the tooth form by drawing, carving, and the dissection and study of the gross internal structures of the teeth.

402. Dental Anatomy. One credit hour. Spring Quarter. Three laboratory hours each week. Dental Hygiene, first year. Dr. Dew.

A continuation of Dental Hygiene 401.

403. Dental Prophylaxis. Three credit hours. Spring Quarter. Nine laboratory hours each week. Dental Hygiene, first year. Mrs. Hunker and assistants.

The demonstration of techniques for removing the hard and soft deposits occurring on the surfaces of the teeth, followed by the application of these techniques by the student to models and as soon as the student becomes proficient to the human mouth.
404. Oral Hygiene. One credit hour. Spring Quarter. One lecture or quiz each week. Dental Hygiene, first year. Dr. Spangenberg.

A discussion of methods by which good Oral Hygiene may be effected. The formation of the various types of deposits forming on the teeth and the prevention of periodontal disease are considered.

405. Materia Medica. One credit hour. Autumn Quarter. One lecture or quiz each week. Dental Hygiene, second year. Dr. Kaiser.

A study of the drugs commonly used in dental practice. A discussion of untoward reactions and the methods of combating such reactions.

501. General Pathology. Two credit hours. Spring Quarter. Two lectures or quizzes each week. Dental Hygiene, first year. Dr. Robinson.

An introduction to general pathology including degenerative changes, inflammation, repair, and a discussion of the more common diseases affecting the human body.

502. Dental Nursing. One credit hour. Autumn Quarter. One lecture or quiz each week. Dental Hygiene, second year. Mrs. Hunker and staff.

A discussion of the ways in which the Dental Hygienist may assist the general practitioner of Dentistry or one specializing in any field of Dentistry.

503. Dental Nursing. One credit hour. Winter Quarter. One lecture or three clinical hours each week. Dental Hygiene, second year. Mrs. Hunker, Miss Wilson.

The clinical applications of material taught in Dental Hygiene 502.


A continuation of Dental Hygiene 503.

505. Dental Materials. Four credit hours. Winter Quarter. One lecture and nine laboratory hours each week. Dental Hygiene, second year. Dr. Dew.

A discussion and study of the composition, chemical and physical properties, manipulation and use of the various materials employed in the practice of Dentistry.

506. Oral Histology and Embryology. One credit hour. Spring Quarter. One lecture or quiz each week. Dental Hygiene, first year. Dr. Kitchin.

A discussion of the microscopic anatomy of the teeth and contiguous structures. The life cycle of a tooth will be considered.

507. Oral Pathology. One credit hour. Autumn Quarter. One lecture or quiz each week. Dental Hygiene, second year. Dr. Robinson.

A discussion of the clinical pathology of the common diseases affecting the teeth and their supporting structures. The recognition of oral manifestations of a group of selected systemic disturbances will be considered.


The principles taught in Dental Hygiene 403 are applied clinically.

509. Dental Prophylaxis. Six credit hours. Winter Quarter. Eighteen clinical hours each week. Dental Hygiene, second year.

A continuation of Dental Hygiene 508.

510. Dental Prophylaxis. Five credit hours. Spring Quarter. Fifteen clinical hours each week. Dental Hygiene, second year.

A continuation of Dental Hygiene 509.
511. Nursing Technique for Dental Hygienists. One credit hour. Autumn Quarter. Two lectures each week. Dental Hygiene, second year. Miss McKenna and staff.
A discussion of the principles of nursing as they apply to the Dental Hygienist.

512. Roentgenology. Two credit hours. Autumn Quarter. Two lectures or quizzes or six laboratory hours each week. Dental Hygiene, second year. Dr. Spangenberg.
A discussion of the relationship of the X-ray machine to the patient, the relationship of the film to the teeth to be surveyed, the exposure, the dangers of over-exposure to the patient and operator, the processing of films, the care of the processing solutions, and mounting of films.

513. Oral Hygiene in the Schools. Two credit hours. Winter Quarter. One lecture and three clinical hours or six clinical hours each week. Dental Hygiene, second year. Mrs. Hunker.
A discussion of the values of the dental education of school children from the standpoint of prevention of dental caries and disease of the supporting structures of the teeth. The material outlined is applied clinically through visits to schools or to nearby dental clinics.

A continuation of Dental Hygiene 513.

515. Anesthesia. One credit hour. Spring Quarter. One lecture or three laboratory hours each week. Dental Hygiene, second year. Dr. Spangenberg.
The preparation and care of local anesthetic solutions and syringes. Toxic reactions are considered. Nitrous oxide anesthesia will be discussed from the standpoint of the ways in which the Dental Hygienist may be helpful to the Dentist during its administration.

516. Office Practices and Economics. Two credit hours. Spring Quarter. Two lectures or quizzes each week. Dental Hygiene, second year. Dr. Deeds.
The relationship of the Dental Hygienist to the practice of Dental Hygiene and Dentistry as well as the economics involved in such practices is considered.

ENGLISH
Office, 115 Derby Hall

PROFESSORS FULLINGTON AND HILDRETH, INSTRUCTORS AND ASSISTANTS

410. English Composition. Three credit hours. One Quarter. Autumn, Winter, Spring. Director, Mr. Hildreth.
Stress is laid upon organization, informal exposition, and craftsmanship of writing. Frequent short papers. Outside reading—selected short stories.
Not open to students who have credit for English 401.

411. English Composition. Three credit hours. One Quarter. Autumn, Winter, Spring. Superior students will be placed in English 413. Prerequisite, English 410. Director, Mr. Hildreth.
Not open to students who have credit for English 401.
412. **English Composition.** Three credit hours. One Quarter. Autumn, Winter, Spring. Superior students will be placed in English 414. Prerequisite, English 410 and 411. Director, Mr. Hildreth.

A continuation of English 411. Emphasis is placed upon the use of the library and the research paper. One long paper, frequent short papers. Outside reading—selected plays and long fiction.

Not open to students who have credit for English 401, 505, 506, 507, or 508.

**HOME ECONOMICS**
Office, 220 Campbell Hall

PROFESSOR BRANEGAN, ASSISTANT PROFESSOR OBERT, MISS FUQUA, MRS. RICE, MRS. WERTENBERGER

440. **Introduction to Nutrition and Foods.** Five credit hours. Spring Quarter. Five class meetings each week. Miss Fuqua, Mrs. Obert, Mrs. Rice, Mrs. Wertenberger.

The course is designed to assist the student in developing food selection habits which meet nutritional standards. The social significance of food and standards for food selection will be emphasized from the standpoint of meeting needs at various economic levels.

Not open to students having credit for Home Economics 410.

**PSYCHOLOGY**
Office, 325 Arps Hall

PROFESSOR BURTT, INSTRUCTORS AND ASSISTANTS

401. **General Psychology.** Five credit hours. One Quarter. Autumn, Winter, Spring. Five meetings each week. Lectures, discussions, laboratory exercises and reports. All instructors.

An introductory course and fundamental to all subsequent courses in the department. This course, together with Psychology 402, undertakes to present a survey of the whole field of human psychology. This includes a study of the experimental findings in infant behavior and the subsequent development of adult modes of response, such as emotion, attention, habit, thinking, and the nature and development of personality.

The facts and principles of human behavior pertinent to everyday life are stressed. The student is required to develop skill in the practical applications of experimental findings in the fields of infant behavior, motivation, attention, and emotion.

404. **Educational Psychology for Medical Personnel.** Five credit hours. One Quarter. Winter and Spring. Five lectures each week. Lectures, discussions, laboratory exercises, and reports. Prerequisite, Psychology 401 and Zoology 401. All Instructors.

This course is designed to present the major facts of human development from birth through maturity as they have application to the work of nurses, occupational therapists, dental hygienists, and other medical personnel. The course begins with a brief survey of human capacities, abilities, interests, individual differences and total development throughout the life span. It then proceeds to a study of learning and personality and considers investigations in the fields of learning and personality which are of professional interest to medical personnel. Throughout the course experimental data are stressed and practical problems emphasized, with frequent laboratory exercises.

Not open to students who have credit for Psychology 407.
SOCIOMETRY
Office, 112 Hagerty Hall
PROFESSOR DENUNE AND STAFF

A study of the fundamental concepts of sociology. The nature of society; the social forces; social evolution; some typical social problems such as those of industry, eugenics, education, and democracy.
Not open to students who have credit for Sociology 401-402 or 407.

SPEECH
Office, 205 Derby Hall
PROFESSORS YEAGER AND KNOWER, AND STAFF

The principles of speech composition and delivery. Practice in preparing and presenting short informative, entertaining, and persuasive speeches. Audience analysis and control. Emphasis is placed upon speaking as a thinking process. Voice and diction. The methods in which the student is trained are applicable to social and business conversation as well as to public address.

ZOOLOGY AND ENTOMOLOGY
Office, 110 Botany and Zoology Building
PROFESSOR D. F. MILLER AND STAFF

401-402. General Zoology. Five credit hours. Two Quarters. Both 401 and 402 are given Autumn, Winter, Spring. Five lecture-laboratory periods each week. Staff and assistants.
A course intended to give the student a general view of the nature of animal life and to point out its relation to man's economic and social activities. The chief topics considered are as follows: nature and structure of living substance, food and its energy transformations, the essentials of reproduction, a review of the animal groups with special stress on useful and harmful qualities, animal distribution and relation to environment; heredity and evolution with particular stress upon their relation to human affairs.
DIVISION OF DENTAL LABORATORY TECHNOLOGY

Dean of the College of Dentistry: WENDELL D. POSTLE
Offices: 117 Hamilton Hall—UN-3148, Ext. 8200, 8209
1714 N. High St.—UN-8954
Residence: 1964 Collingswood Rd.—KI-3731

Secretary of the College of Dentistry: PAUL C. KITCHIN
Office: 117 Hamilton Hall—UN-3148, Ext. 748, 8200
Residence: 474 E. Dunedin Rd.—LA-2898

Director: CARL O. BOUCHER
Offices: 214 Hamilton Hall—UN-3148, Ext. 8228
21 E. State St.—AD-9319
Residence: 1589 Belmont Ave.—UN-9348

FACULTY
1948 - 1949

WENDELL D. POSTLE, D.D.S. Dean of the College of Dentistry and Professor of Dentistry

CARL O. BOUCHER, D.D.S. Director of Dental Technology; Professor of Dentistry

FRANK C. STARR, D.D.S. Professor of Dentistry (Crown and Bridge Work)

EARL G. JONES, D.D.S. Professor of Dentistry (Orthodontics)

VICTOR L. STEFFEL, D.D.S. Professor of Dentistry (Prosthetic Dentistry)

JAMES F. FULLINGTON, M.A., Ph.D. Professor of English

HOYT L. SHERMAN, B.A. Professor of Fine Arts

EDWARD MACK, JR., B.A., M.A., Ph.D. Professor of Chemistry

HARALD H. NIELSEN, B.S., M.A., Ph.D. Professor of Physics

WILLIAM C. DEW, D.D.S. Associate Professor of Dentistry (Prosthetic Dentistry)

JAMES A. KREIDER, D.D.S. Assistant Professor of Dentistry (Prosthetic Dentistry)

ROBERT T. TRIPPY, D.D.S. Assistant Professor of Dentistry (Prosthetic Dentistry)

LAWRENCE J. JONES, D.D.S. Instructor in Dentistry (Prosthetic Dentistry)
CURRICULUM IN DENTAL LABORATORY TECHNOLOGY
Offered by the
COLLEGE OF DENTISTRY

DIVISION OF DENTAL LABORATORY TECHNOLOGY

The College of Dentistry of the Ohio State University offers the following curriculum in Dental Laboratory Technology. This curriculum consists of two academic years (six Quarters) and is presented under the supervision of a selected group from the faculty of the College of Dentistry.

GENERAL STATEMENTS

In order to have a better and more complete understanding of the courses included in the Division of Dental Laboratory Technology, it is advisable for the reader to be familiar with the duties of Graduate Dental Laboratory Technicians.

Dental Laboratory Technicians are trained to assist dentists in those parts of his work which are done apart from the patient in the dentist's laboratory. This work is technical in nature, such as the fabrication of full and partial dentures and bridges on the prescription or at the direction of the dentist.

Dental Laboratory Technicians may be employed by dental laboratories or by dentists to carry out the technical laboratory phases of dentistry as an adjunct of the dental profession but, in no sense, as an independent agent capable of rendering a health service to the public.

When employed by dental laboratories, Dental Laboratory Technicians may, after sufficient experience, provide coordination between the various steps in the work, and may supervise the work of others in the dental laboratory. After a period of practical experience they will be capable of managing a commercial dental laboratory.

When employed by a dentist or a group of dentists, the Dental Laboratory Technician will do his work under the immediate direction of the dentist or dentists, and will become familiar with the individual requirements of his employer.

The curriculum in Dental Laboratory Technology was established in order to fulfill the need for adequately trained dental laboratory technicians who know how to carry out all the operations which are done in a dental laboratory in the way dentists would like to have them done. The adequately trained Dental Laboratory Technicians will make it possible for the dentist to serve more people without sacrificing the quality of the service. The course will train the student how to work for the dentist and how to fill the prescriptions of the dentist. It will extend through a period of six Quarters in which time the student will learn how to do all the operations which he will be asked to do by the dentist. The skill and speed with which he does the work will be improved and increased with experience in dental laboratory work.

No license or examination is required in most states before starting to work as a Dental Laboratory Technician since the dentist is responsible for all of the work done by the Dental Laboratory Technician.

ADMISSION TO DENTAL LABORATORY TECHNOLOGY

The curriculum in Dental Laboratory Technology is open to men only.

REQUIREMENTS FOR ADMISSION

An applicant for admission must present a certificate of graduation from an accredited high school. The following units are necessary:

- English ................................................................. 3 units
- American History and Civics .................................. 1 unit
- Algebra ................................................................. 1 unit
- Plane Geometry ..................................................... 1 unit

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A student deficient in Algebra, Plane Geometry, or American History and Civics may be entered with a condition in that subject. A condition must be removed by enrolling and completing the course before recommendation for graduation from the University may be authorized.

Although it is not required, the student will find it helpful if he has included in his high school work units of Physics, Chemistry, Solid Geometry and a Biological Science.

The personal qualities required for admission are as important as the scholastic requirements. The applicant must be cooperative and must have the ability to work with other people. He must have good vision, a natural manual dexterity and a mechanical aptitude.

METHOD OF ADMISSION

Application for admission to the Division of Dental Laboratory Technology is made to the Entrance Board of The Ohio State University. Suitable applications, forms and directions will be furnished by this Board upon request.

Upon receipt of the prospective student’s application by this board, it will be examined for entrance eligibility. The Director of the Division of Dental Laboratory Technology will be notified of the application and will contact the prospective student for a personal interview. This interview is required of all applicants to the curriculum in Dental Laboratory Technology. An aptitude test will be required of all applicants which will be an important criterion in the selection of students. The date of this test will be arranged at the time of the interview. No application will be accepted by the Entrance Board until the interview and aptitude test have been completed, therefore, it is the responsibility of the applicant to see that this is arranged.

Correspondence relating to admission should be sent to the University Examiner, The Ohio State University, Columbus 10, Ohio.

ADVANCED STANDING

The application of an advanced student will be considered by the Administrative Committee of the Division of Dental Laboratory Technology. A suitable curriculum will be arranged to satisfy the individual student’s requirements for graduation.

REGISTRATION

Upon acceptance into the University by the Entrance Board, the applicant will be notified. He will receive his fee card and the program of studies for the first Quarter by mail. Upon payment of the fees, the student will be officially entered into the University and the Division of Dental Laboratory Technology, College of Dentistry.

ORIENTATION PROGRAM OF REQUIRED ENTRANCE PROJECTS

All new students in the undergraduate colleges and schools, both Freshmen and Transfer students with advanced standing, are expected to take part in a series of orientation projects which are conducted on the day or days preceding the opening of their first Quarter of residence.

(a) New students entering the Professional Schools and Colleges of Dentistry, Law, Medicine, Optometry, Pharmacy, and Veterinary Medicine are expected to take only the Physical Examination including Chest X-ray and Speech and Hearing Test, which are University requirements by Rule 151.

(b) New students entering the Graduate School are required to take the same Physical Examination projects and by Rule 152 are required to take also the Ohio State Psychological Examination if their graduate work is in the Departments of Aeronautical Engineering, Agri-

(c) New students transferring here with B.A. and B.Sc. degrees earned elsewhere, but enrolling in undergraduate Colleges for special programs are required by Rules 151 and 152 to take the Physical Examination projects and the Ohio State Psychological Examination.

Ordinarily, excuses from Required Entrance Projects of the Orientation Week Program are not granted, and employed students are expected to make plans to take part in projects when the Orientation Program starts. Printed instructions for each Quarter will be mailed either by the Registrar’s office, with the approved schedule card and fee bill, or by the office handling arrangements for this program. All new students are expected to follow the instructions in this program in every detail. Tests are essential to assure places in classes and registration will not be considered complete until all required entrance projects have been finished.

Projects each Quarter include a complete physical examination, intelligence test, speech and hearing test, and placement examinations in English, Chemistry, Hygiene, Mathematics, French, German, and Spanish. Faculty and college office advisers are available for interviews to discuss the educational plans of new students.

In Orientation Week each Fall Quarter provision is made for several special meetings. These include a student convocation which is addressed by the President, and a Sunday Convocation. The undergraduate Colleges conduct college meetings at which the Dean and other College officers have an opportunity to meet their new students and interpret the college program. The Dean of Women and the Dean of Men conduct conferences where information is presented on the extra-curricular activities of the University. An illustrated lecture on University History supplies background for understanding a state university and its organization. Social events are included in the general program.

Orientation Programs are planned for each of the four Quarters of the school year. In January, March, and June of each year, one-day Orientation programs are held on the Mondays preceding the opening of classes on Tuesdays for these three Quarters. In September a more comprehensive program called Orientation Week starts on Wednesday for a six-day period preceding the opening of classes on Tuesday for the Fall Quarter. Inquiries should be addressed to Orientation Program Office, William S. Guthrie, Director, University Hall, Room 1 (campus telephone 104).

FEES 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 except under special procedure authorized by the President.

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 sufficient money to cover all his fees and deposits.

A penalty of $1.00 for each succeeding day or fraction thereof (with a
maximum of $10.00) will be assessed for failure to comply with this rule unless excused by the Registrar.

1. Matriculation fee (non-returnable)
   Required of every student on first admission to the University ........................................... $ 15.00

2. Incidental fees
   Incidental fees include the laboratory deposit, $85.00 of which is non-returnable
   *Quarter fee for a resident of Ohio ................................................................. 120.00
   *Quarter fee for a non-resident of Ohio ....................................................... 195.00

3. Special fees
   (a) General Activities Fee each Quarter .................................................. 5.00
   (b) Ohio Union Fee each Quarter ................................................................. 5.00
   (c) Breakage and Laundry Deposit (paid once a year) .................................... 20.00
   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) Physical Education Fee (first year) ...................................................... 5.00
   (e) Deposit for military uniform for Freshmen ............................................. 28.00

Note: When checks given for payments of fees are not paid on presentation at the bank, registration will be automatically cancelled and receipts given -onsidered null and void.

* See Non-Residents, page 10.

APPROXIMATE COST OF THE COMPLETE COURSE

Matriculation Fee (paid only once) ........................................................................ $ 15.00
Incidental Fees
   Laboratory Deposit (non-returnable) ................................................................. 510.00
   Incidental Fee ($35.00 per Quarter) ................................................................. 210.00
Special Fees
   General Activities Fee ($5.00 per Quarter) .................................................. 30.00
   Ohio Union Fee ($5.00 per Quarter) ................................................................. 30.00
   Physical Education Fee ($5.00 per Quarter) .................................................... 15.00
   Breakage and Laundry Deposit (paid once each year) ...................................... 40.00
   Deposit to cover military uniform ................................................................. 28.00
Books, Instruments and Supplies ................................................................. 200.00
Room Rent—Men (Private Homes) ................................................................. 400.00
Board—Men (Restaurants) ................................................................. 750.00
Room and Board in Dormitories—Men ......................................................... 990.00

Total Estimated Cost of the Six Quarters
   (Men in Private Homes) ............................................................................. $2228.00
   (Men in Dormitories) ................................................................................... $2068.00

STUDENT FINANCIAL AIDS

The Student Financial Aids Office is located in Rooms 111 and 112, Administration Building. Financial aids counseling is available to all students enrolled in the University. Students having financial problems should make use of the service which coordinates student employment, loans and scholarships.

EMPLOYMENT

Students interested in securing part-time employment should make application during Orientation Week. A large percentage of the student body is earning all or part of its expenses. Usually students work because they need
the earnings, some work in order to secure valuable experience which will help in graduate placement or will serve as a trial work experience. Positions should be selected not only for remuneration offered but because of personal values which may be gained. The number of hours a student should work will depend upon many factors: physical stamina, work and study habits, financial need, and the academic load carried. The entering Freshman attempting to adjust his habits to college life should plan a lighter work and academic schedule than seems necessary. After the first Quarter, provided a satisfactory adjustment has been made, it will be possible to carry a heavier load. The work schedule as well as the academic schedule should always be carefully checked with the Director. The student should keep in mind, too, that it is most important always for the Employment Division to have a complete record of the student's academic schedule before a satisfactory referral can be made.

Efforts will be made to place students in commercial dental laboratories or dental offices in the Summer Quarter between the first and second years.

LOANS

Loans are for students in financial need. They are granted for educational purposes only.

Generally speaking, these loans are usually limited to upperclassmen and students in the Graduate School and professional colleges. In special cases, underclassmen may apply. No loans are made to students in the Twilight School or to those with less than fifteen credit hours (one full Quarter) in residence on the Ohio State Campus.

A written application, character references, parent’s signatures for underage students, promissory notes signed by the borrower and cosigner are required. A repayment plan is set up for all loans, both short-term and long-term. The usual rate of interest is 4%.

SCHOLARSHIPS

The Ohio State University has a limited number of scholarships which are awarded to outstanding students in financial need. Residents of Ohio only are eligible to apply.

For further information concerning employment, loans or scholarships, consult the bulletin, "Financial Aids for Students." Direct application for assistance may be made at the Student Financial Aids Office, Employment Unit, 111 and 112 Administration Building. Written applications for loans are made in the Loan Annex, 1241 Derby Annex.

RULES AND REGULATIONS

To save the duplication of informative material, all general information for students has been placed on the first pages of this bulletin.

It is recommended that the student read these sections carefully. An understanding of the information presented will avoid confusion.

For rules and regulations concerning student responsibility and procedure, study the booklet, “University Rules and Regulations for Students,” a copy of which may be obtained from the Registrar.

WARNING FOR LOW STANDING AND DISMISSAL

Any student who falls below a point-hour ratio of 1.50 at the close of the second Quarter; 1.60 at the close of the third Quarter; 1.70 at the close of the fourth Quarter; or 1.80 at the close of the fifth Quarter shall be warned and considered for dismissal from the Division of Dental Laboratory Technology by the Administrative Committee.

Any student who falls below 1.50 at the end of the third Quarter shall be dismissed from the University.
If, at any time, the preparation, progress or success of a student in his assigned work is deemed unsatisfactory, the Administrative Committee of the Division of Dental Laboratory Technology shall recommend his dismissal. Also, any student who is found guilty of giving or accepting assistance during an examination shall be dismissed from the Division of Dental Laboratory Technology.

**REQUIREMENTS FOR GRADUATION**

At the close of the second year, a student who has completed the curriculum in Dental Laboratory Technology will receive the certificate of Graduate Dental Laboratory Technician on the following conditions:

1. He must be at least eighteen years of age, and of good moral character which includes good conduct in college.
2. He must have the necessary amount of credit points required for graduation which shall amount to not less than 1.8 times the number of credit hours undertaken at this institution.
3. He must have completed satisfactorily the six Quarters of the curriculum of Dental Laboratory Technology at The Ohio State University, College of Dentistry, Division of Dental Laboratory Technology.
4. He must have attended at least 85 per cent of the scheduled classes and laboratory sessions.
5. He must have discharged all of his financial obligations to the College of Dentistry.
6. He must be present at the time and place scheduled by the Director of The Division of Dental Laboratory Technology 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.

**CURRICULUM IN DENTAL LABORATORY TECHNOLOGY**

**FIRST YEAR**

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<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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**SECOND YEAR**

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DEPARTMENTS OF INSTRUCTION

CHEMISTRY
Office, 115 Chemistry Building
PROFESSORS MACK AND HASKINS, AND ASSISTANTS

407. Elementary Chemistry. Five credit hours. One Quarter. Autumn and Winter. Three lectures, one recitation, and one three-hour laboratory period each week. Mr. Haskins and assistants.

A course in the general chemistry of the more important elements and compounds. Designed for students who do not expect to take more than two Quarters of chemistry. To be followed by Chemistry 408.

This course cannot be used as a prerequisite for Chemistry 412 except by proficiency examination.

408. Elementary Chemistry. Five credit hours. One Quarter, Winter and Spring. Three lectures, one recitation, and one three-hour laboratory period each week. Mr. Haskins and assistants.

A continuation of Chemistry 407 including a study of the more important compounds of carbon such as petroleum, foods, fabrics, rubber, etc.

This course cannot be used as a prerequisite for Chemistry 413 except by proficiency examination.

DENTISTRY, DIVISION OF DENTAL LABORATORY TECHNOLOGY
Office, 214 Hamilton Hall
PROFESSORS POSTLE, BOUCHER, STARR, STEFFEL, ASSOCIATE PROFESSOR DEW, ASSISTANT PROFESSORS KREIDER AND TRIPPY, DR. JONES, AND ASSISTANTS

401. Dental Anatomy. Three credit hours. Autumn Quarter. One lecture and six laboratory hours each week. Dental Laboratory Technology, first year. Dr. Dew, Dr. Jones, and staff.

The study of human permanent teeth, and their relations to each other and the supporting structures.

402. Dental Anatomy. Three credit hours. Winter Quarter. One lecture and six laboratory hours each week. Dental Laboratory Technology, first year. Dr. Dew, Dr. Jones, and staff.

A continuation of Dental Laboratory Technology 401.

403. Dental Materials. One credit hour. Autumn Quarter. One lecture, or lecture demonstrations, or quiz each week. Dental Laboratory Technology, first year. Dr. Dew, Dr. Jones, and staff.

A study of the materials used by the dental laboratory technician in the dental laboratory.

404. Dental Materials. Two credit hours. Winter Quarter. One lecture and three laboratory hours each week. Dental Laboratory Technology, first year. Dr. Dew, Dr. Jones, and staff.

A continuation and application of Dental Laboratory Technology 403, with demonstrations.

405. Dental Materials. Two credit hours. Spring Quarter. One lecture and three laboratory hours each week. Dental Laboratory Technology, first year. Dr. Dew, Dr. Jones, and staff.

Continuation of Dental Laboratory Technology 404, including the use and care of laboratory equipment.
406. Orientation. Dental History and Nomenclature. One credit hour. Autumn Quarter. One lecture each week. Dental Laboratory Technology, first year. Dr. Postle and Dr. Kreider.
A survey of Dental Laboratory Technology and a study of the progress of dentistry and of dental laboratory.

408. Dental Technics. Two credit hours. Winter Quarter. One lecture and three laboratory hours each week. Dental Laboratory Technology, first year. Dr. Boucher, Dr. Kreider, Dr. Jones, and staff.
A study of technical procedures used in the dental laboratory.

409. Dental Technics. Nine credit hours. Spring Quarter. Two lectures and twenty-one laboratory hours each week. Dental Laboratory Technology, first year. Dr. Boucher, Dr. Jones, and staff.
A continuation of Dental Laboratory Technology 408.

501. Metallurgy. Three credit hours. Autumn Quarter. One lecture and six laboratory hours each week. Dental Laboratory Technology, second year. Dr. Dew, Dr. Jones, and staff.
A study of base and noble metals used in the dental laboratory.

A study of the ethical and legal limitations of the dental laboratory technician.

503. Laboratory Management. One credit hour. Spring Quarter. One lecture each week. Dental Laboratory Technology, second year. Dr. Steffel.
The economics and management of a dental laboratory.

504. Ceramics. Three credit hours. Spring Quarter. One lecture and six laboratory hours each week. Dental Laboratory Technology, second year. Dr. Starr and staff.
A study of the use of ceramic materials in a dental laboratory.

510. Partial Metal Designing. Three credit hours. Autumn Quarter. One lecture and six laboratory hours each week. Dental Laboratory Technology, second year. Dr. Steffel, Dr. Jones, and staff.
The fundamental principles involved in designing the framework of removable partial dentures.

511. Dental Technics. Five credit hours. Autumn Quarter. One lecture and twelve laboratory hours each week. Dental Laboratory Technology, second year. Dr. Starr, Dr. Trippy, Dr. Jones, and staff.
A continuation of Dental Laboratory Technology 409, but of more advanced and practical application.

512. Dental Technics. Sixteen credit hours. Winter Quarter. Five lectures and thirty-three laboratory hours each week. Dental Laboratory Technology, second year. Dr. Boucher, Dr. Steffel, Dr. Jones, and staff.
A continuation of Dental Laboratory Technology 511.

513. Dental Technics. Eleven credit hours. Spring Quarter. Two lectures and twenty-seven laboratory hours each week. Dental Laboratory Technology, second year. Dr. Boucher, Dr. Jones, and staff.
A continuation of Dental Laboratory Technology 512.
ENGLISH
Office, 115 Derby Hall
PROFESSORS FULLINGTON AND HILDRETH, AND STAFF

410. English Composition. Three credit hours. One Quarter. Autumn, Winter, Spring. Director, Mr. Hildreth.
Stress is laid upon organization, informal exposition, and craftsmanship of writing. Frequent short papers. Outside reading—selected short stories.
Open only to students enrolled in curricula requiring English 410, 411, 412 for the Bachelor of Science degree and not open to students who have credit for English 401.

411. English Composition. Three credit hours. One Quarter. Autumn, Winter, Spring. Superior students will be placed in English 413. Prerequisite, English 410. Director, Mr. Hildreth.
Open only to students enrolled in curricula requiring English 410, 411, 412 for the Bachelor of Science degree and not open to students who have credit for English 401.

FINE AND APPLIED ARTS
Office, 104 Hayes Hall
PROFESSOR SEIBERLING AND STAFF

An introduction to the principles of visual form by means of their execution in graphic media.
Not open to students who have credit for Fine Arts 421 or 423.

MILITARY AND AIR SCIENCE
Office, Military Science Building
COLONEL BREWER AND STAFF AS ORDERED BY THE DEPARTMENT OF THE ARMY
LIEUTENANT COLONEL WALKER AND STAFF AS ORDERED BY THE DEPARTMENT OF THE AIR FORCE

In accordance with the Morrill Act, passed in 1862, under which the University was established, military instruction must be included in the curricula. The Board of Trustees, therefore, requires all male students, both special and regular, unless excused by the Department of Military and Air Science, to receive military or air instruction during the first two years of residence.
The Reserve Officers' Training Corps is established at the University to produce junior officers who have the qualities and attributes essential to their progressive development as officers in the Army or Air Force of the United States. Its program consists of two parts: the required basic military or air course extending over a period of two years and the voluntary advanced course extending over a like period. Instruction is under the direction of officers and non-commissioned officers detailed to the University for that purpose.
Male students at this institution, required to receive military or air instruction, will pursue the basic two year courses as formally enrolled members of the ROTC. Successful completion of the Basic Course, ROTC, or credit in lieu thereof for prior equivalent training or service, is a prerequisite for the advanced course. Credit toward graduation is given for the Military or Air Science courses on the same basis as for other courses offered by the University.
All Freshman and Sophomore male students are required to take military or air training except those enrolled in the Colleges of Dentistry, Law, and Medicine, and in the Naval ROTC. There are certain other exemptions, determined by the Department of Military and Air Science, which are granted for the following reasons:
1. Over twenty-five years of age.
2. Not physically fit for ROTC.
3. Prior equivalent training or service.
4. Commissioned officers of the Officers' Reserve Corps, Air Force Reserve, or the National Guard.
5. Alien status. (Non-resident of the United States)
Military Science

First Year Basic Military Science

Formal instructions applicable to either the Army or Air Force as a whole. Students are given their choice of Army or Air Force classes as far as quota limitations permit. Three one-hour classes are held each week. First year and second year Basic Military or Air Science course attendance is required of all male students unless excused.

421. Basic Military or Air Science. Two credit hours. Autumn Quarter.
422. Basic Military or Air Science. Two credit hours. Winter Quarter.
423. Basic Military or Air Science. Two credit hours. Spring Quarter.

Second Year Basic Military Science

Formal instruction applicable to the following branches of the Army: Armored Cavalry, Chemical Corps, Engineer Corps, Field Artillery, Medical...
Corps, Ordnance, and Transportation Corps. See eligibility requirements for each branch in the general description of military courses on preceding pages. Three one-hour classes are held each week. All male students must take either the Military or Air Force Second Year Basic courses unless excused.

**BASIC ENGINEER CORPS**

450. Basic Engineer. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

451. Basic Engineer. Two credit hours. Winter Quarter. Prerequisite, Military Science 450.

452. Basic Engineer. Two credit hours. Spring Quarter. Prerequisite, Military Science 451.

**BASIC CHEMICAL CORPS**

453. Basic Chemical Corps. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

454. Basic Chemical Corps. Two credit hours. Winter Quarter. Prerequisite, Military Science 453.

455. Basic Chemical Corps. Two credit hours. Spring Quarter. Prerequisite, Military Science 454.

**BASIC FIELD ARTILLERY**

456. Basic Field Artillery. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

457. Basic Field Artillery. Two credit hours. Winter Quarter. Prerequisite, Military Science 456.

458. Basic Field Artillery. Two credit hours. Spring Quarter. Prerequisite, Military Science 457.

**BASIC ARMORED CAVALRY**

460. Basic Armored Cavalry. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

461. Basic Armored Cavalry. Two credit hours. Winter Quarter. Prerequisite, Military Science 460.

462. Basic Armored Cavalry. Two credit hours. Spring Quarter. Prerequisite, Military Science 461.

**BASIC SIGNAL CORPS**

463. Basic Signal Corps. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

464. Basic Signal Corps. Two credit hours. Winter Quarter. Prerequisite, Military Science 463.

465. Basic Signal Corps. Two credit hours. Spring Quarter. Prerequisite, Military Science 464.

**BASIC ORDNANCE**

466. Basic Ordnance. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

467. Basic Ordnance. Two credit hours. Winter Quarter. Prerequisite, Military Science 466.
468. Basic Ordnance. Two credit hours. Spring Quarter. Prerequisite, Military Science 467.

**BASIC TRANSPORTATION CORPS**

470. Basic Transportation Corps. Two credit hours. Autumn Quarter. Prerequisite, Military Science 421, 422, and 423.

471. Basic Transportation Corps. Two credit hours. Winter Quarter. Prerequisite, Military Science 470.

472. Basic Transportation Corps. Two credit hours. Spring Quarter. Prerequisite, Military Science 471.

**ADVANCED MILITARY SCIENCE**

Formal instruction which is a continuation of second year Basic courses. Satisfactory completion of the advanced course is a prerequisite to obtain a commission as a Second Lieutenant in the Organized Reserve Corps. Entrance into the advanced course is voluntary on the part of the student. Five one-hour classes are held each week.

**ADVANCED ENGINEER CORPS**

513. Advanced Engineer. Three credit hours. Autumn Quarter. Prerequisite, Military Science 452.

514. Advanced Engineer. Three credit hours. Winter Quarter. Prerequisite, Military Science 513.

515. Advanced Engineer. Three credit hours. Spring Quarter. Prerequisite, Military Science 514.

516. Advanced Engineer. Three credit hours. Autumn Quarter. Prerequisite, Military Science 515.

517. Advanced Engineer. Three credit hours. Winter Quarter. Prerequisite, Military Science 516.

518. Advanced Engineer. Three credit hours. Spring Quarter. Prerequisite, Military Science 517.

**ADVANCED CHEMICAL CORPS**

521. Advanced Chemical Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 455.

522. Advanced Chemical Corps. Three credit hours. Winter Quarter. Prerequisite, Military Science 521.

523. Advanced Chemical Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 522.

524. Advanced Chemical Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 523.

525. Advanced Chemical Corps. Three credit hours. Winter Quarter. Prerequisite, Military Science 524.

526. Advanced Chemical Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 525.

**ADVANCED FIELD ARTILLERY**

527. Advanced Field Artillery. Three credit hours. Autumn Quarter. Prerequisite, Military Science 458.

528. Advanced Field Artillery. Three credit hours. Winter Quarter. Prerequisite, Military Science 527.

529. Advanced Field Artillery. Three credit hours. Spring Quarter. Prerequisite, Military Science 528.

531. Advanced Field Artillery. Three credit hours. Winter Quarter. Pre-requisite, Military Science 530.

532. Advanced Field Artillery. Three credit hours. Spring Quarter. Pre-requisite, Military Science 531.

ADVANCED ARMORED CAVALRY

541. Advanced Armored Cavalry. Three credit hours. Autumn Quarter. Prerequisite, Military Science 462.

542. Advanced Armored Cavalry. Three credit hours. Winter Quarter. Prerequisite, Military Science 541.

543. Advanced Armored Cavalry. Three credit hours. Spring Quarter. Prerequisite, Military Science 542.

544. Advanced Armored Cavalry. Three credit hours. Autumn Quarter. Prerequisite, Military Science 543.

545. Advanced Armored Cavalry. Three credit hours. Winter Quarter. Prerequisite, Military Science 544.

546. Advanced Armored Cavalry. Three credit hours. Spring Quarter. Prerequisite, Military Science 545.

ADVANCED SIGNAL CORPS

547. Advanced Signal Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 465.

548. Advanced Signal Corps. Three credit hours. Winter Quarter. Prerequisite, Military Science 547.

549. Advanced Signal Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 548.

550. Advanced Signal Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 549.


552. Advanced Signal Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 551.

ADVANCED ORDNANCE

583. Advanced Ordnance. Three credit hours. Autumn Quarter. Prerequisite, Military Science 468.

584. Advanced Ordnance. Three credit hours. Winter Quarter. Prerequisite, Military Science 583.

585. Advanced Ordnance. Three credit hours. Spring Quarter. Prerequisite, Military Science 584.

586. Advanced Ordnance. Three credit hours. Autumn Quarter. Prerequisite, Military Science 585.

587. Advanced Ordnance. Three credit hours. Winter Quarter. Prerequisite, Military Science 586.

588. Advanced Ordnance. Three credit hours. Spring Quarter. Prerequisite, Military Science 587.
ADVANCED TRANSPORTATION CORPS

593. Advanced Transportation Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 472.

594. Advanced Transportation Corps. Three credit hours. Winter Quarter. Prerequisite, Military Science 593.

595. Advanced Transportation Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 594.

596. Advanced Transportation Corps. Three credit hours. Autumn Quarter. Prerequisite, Military Science 595.

597. Advanced Transportation Corps. Three credit hours. Winter Quarter. Prerequisite, Military Science 596.

598. Advanced Transportation Corps. Three credit hours. Spring Quarter. Prerequisite, Military Science 597.

AIR SCIENCE

FIRST YEAR BASIC AIR SCIENCE

Formal instruction applicable to either the Air Force or Army as a whole. Students are given their choice of Air Force or Army classes as far as quota limitations permit. Three one-hour classes are held each week. First year and second year Basic Air or Military Science is required of all male students unless excused.

421. Basic Air or Military Science. Two credit hours. Autumn Quarter.

422. Basic Air or Military Science. Two credit hours. Winter Quarter.

423. Basic Air or Military Science. Two credit hours. Spring Quarter.

SECOND YEAR BASIC AIR SCIENCE

Formal instruction applicable to general Air Force subjects and basic Air Force Maintenance Engineering or Air Force Supply. See eligibility requirements for each course in general description of military courses on preceding pages. Three one-hour classes are held each week. All male students must take either the Air Force or Military second year Basic courses unless excused.

BASIC AIR FORCE MAINTENANCE ENGINEERING

433M. Basic Air Force Maintenance Engineering. Two credit hours. Autumn Quarter. Prerequisite, Air Science 421, 422, and 423.

434M. Basic Air Force Maintenance Engineering. Two credit hours. Winter Quarter. Prerequisite, Air Science 433M.

435M. Basic Air Force Maintenance Engineering. Two credit hours. Spring Quarter. Prerequisite, Air Science 434M.

BASIC AIR FORCE SUPPLY

433S. Basic Air Force Supply. Two credit hours. Autumn Quarter. Prerequisite, Air Science 421, 422, and 423.

434S. Basic Air Force Supply. Two credit hours. Winter Quarter. Prerequisite, Air Science 433S.

435S. Basic Air Force Supply. Two credit hours. Spring Quarter. Prerequisite, Air Science 434S.
Formal instruction which is a continuation of the Air Force Maintenance Engineering or Air Force Supply second year basic courses. Satisfactory completion of the advanced course is a prerequisite to obtain a commission as a Second Lieutenant in the Air Force Reserve. Entrance into the advanced course is voluntary on the part of the student. Five one-hour classes are held each week.

**ADVANCED AIR FORCE MAINTENANCE ENGINEERING**

533M. Advanced Air Force Maintenance Engineering. Three credit hours. Autumn Quarter. Prerequisite, Air Science 435M.

534M. Advanced Air Force Maintenance Engineering. Three credit hours. Winter Quarter. Prerequisite, Air Science 533M.

535M. Advanced Air Force Maintenance Engineering. Three credit hours. Spring Quarter. Prerequisite, Air Science 534M.

536M. Advanced Air Force Maintenance Engineering. Three credit hours. Autumn Quarter. Prerequisite, Air Science 535M.

537M. Advanced Air Force Maintenance Engineering. Three credit hours. Winter Quarter. Prerequisite, Air Science 536M.

538M. Advanced Air Force Maintenance Engineering. Three credit hours. Spring Quarter. Prerequisite, Air Science 537M.

**ADVANCED AIR FORCE SUPPLY**

533S. Advanced Air Force Supply. Three credit hours. Autumn Quarter. Prerequisite, Air Science 435S.

534S. Advanced Air Force Supply. Three credit hours. Winter Quarter. Prerequisite, Air Science 533S.

535S. Advanced Air Force Supply. Three credit hours. Spring Quarter. Prerequisite, Air Science 534S.

536S. Advanced Air Force Supply. Three credit hours. Autumn Quarter. Prerequisite, Air Science 535S.

537S. Advanced Air Force Supply. Three credit hours. Winter Quarter. Prerequisite, Air Science 536S.

538S. Advanced Air Force Supply. Three credit hours. Spring Quarter. Prerequisite, Air Science 537S.

**PHYSICS AND ASTRONOMY**

Office, 107 Mendenhall Laboratory

PROFESSOR NIELSEN, ASSOCIATE PROFESSOR HESTHAL

**GENERAL STUDIES IN PHYSICS AND ASTRONOMY**

431. Nature of the Physical World. Five credit hours. One Quarter. Autumn and Spring. Three lecture and recitation periods and two one-hour observation and discussion periods each week. The McMillin Observatory and its refracting telescope will also be used for observation. Mr. Hesthal.

This course ignores distinctions between modern physics and astronomy and discusses phenomena that are commonly encountered or likely to be encountered by the average individual. It selects its subject matter from both sciences in such a way as to give an elementary but comprehensive picture of the physical universe. Phenomena including the latest developments in science are discussed in a descriptive, explanatory manner and no previous scientific or mathematical training is assumed.
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