Bulletin of the College of Dentistry, 1965-1966

University of Nebraska

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college of dentistry
1965-1966
The faculty of the College of Dentistry, University of Nebraska, recognizing its responsibilities to its students, the profession, and the public, sets forth the following as the objectives of the College:

1. To make every effort to select students for the study of dentistry who have the personal and moral qualifications and the scholastic ability for a professional career in dentistry.

2. To provide, within a flexible curriculum, a solid foundation of fundamental scientific knowledge and the basic technical skills necessary to the utilizing of this knowledge.

3. To motivate students to recognize and fulfill their social and moral responsibilities to their patients, their civic responsibility to the community, and their ethical obligation to the profession of dentistry.

4. To inspire students to recognize the need for continuing education and for personal and professional evaluation throughout their professional careers.
### First Semester

- **August 31**—Tues.
- **Sept. 7, 8**—Tues., Wed.
- **Sept. 8, 9, 10**—8:30–11:30 a.m., 1:00–4:00 p.m.
- **Sept. 13**—Mon.
- **Sept. 13**—Mon.
- **Sept. 17**—Fri.
- **Sept. 20**—Mon.
- **Oct. 8**—Fri.
- **Oct. 30**—Sat. noon
- **Nov. 24-28**—Wed. 8:00 a.m. through Sun.
- **Dec. 18-Jan. 2**—Sat. noon through Sun.
- **Jan. 15**—Sat.
- **Jan. 18-Jan. 26**—Tues. through Wed.
- **Jan. 29**—Sat.

- **Last day for undergraduate applications**
- **Late student preregistration tests and medical reviews**
- **General Registration**
- **Late fees for undergraduate students begin**
- **First semester classes begin**
- **Late fees for graduate students begin**
- **Final day on which registration and payment of fees will be accepted**
- **Last day to file drops in Registrar's Office**
- **Seven weeks scholastic reports due**
- **Thanksgiving vacation**
- **Christmas vacation**
- **Last day of first semester classes**
- **First semester examinations**
- **First semester commencement**

### Second Semester

- **Jan. 26, 27**—Wed. and Thurs.
- **Jan. 27**—Thurs.
- **Jan. 28**—Fri.
- **Jan. 31**—Mon.
- **Jan. 31**—Mon.
- **Feb. 4**—Fri.
- **Feb. 7**—Mon.
- **Feb. 15**—Tues.
- **Feb. 25**—Fri.
- **March 19**—Sat. noon
- **April 9-17**—Sat. noon through Sun.
- **April 19**—Tues.
- **April 29**—Fri. noon
- **April 30**—Sat.
- **May 21**—Sat.
- **May 24-June 2**—Tues. through Thurs.
- **May 30**—Mon.
- **June 4**—Sat.
- **June 4**—Sat.

- **Preregistration tests**
- **Medical reviews**
- **Registration**
- **Late fees for undergraduate students begin**
- **Second semester classes begin**
- **Late fees for graduate students begin**
- **Final day on which registrations and payment of fees will be accepted**
- **Charter Day**
- **Last day to file drops in Registrar's Office**
- **Seven weeks scholastic reports due**
- **Spring vacation**
- **Honors Convocation**
- **Spring Day, no undergraduate classes**
- **Ivy Day, no undergraduate classes**
- **Last day of second semester classes**
- **Second semester examinations**
- **Memorial Day (legal holiday)**
- **Alumni Round-Up Day**
- **June Commencement**
ADMINISTRATION

The Board of Regents

Term Expires

Clarence E. Swanson, Lincoln ......................................................... January 1967
J. Leroy Welsh, Omaha ................................................................. January 1967
J. G. Elliott, Scottsbluff .............................................................. January 1969
Val Peterson, Hastings ................................................................. January 1969
Richard E. Adkins, Osmond .......................................................... January 1971
B. N. Greenberg, M.D., York ......................................................... January 1971

Joseph Soshnik, Lincoln, Corporation Secretary

The University

Clifford Morris Hardin, Ph.D., Chancellor of the University.
Adam Carlyle Breckenridge, Ph.D., Vice Chancellor and Dean of Faculties.
Roy Groves Holly, Ph.D., Vice Chancellor for Graduate and Professional
  Education and Research, Dean of the Graduate College.
G. Robert Ross, Ph.D., Vice Chancellor for Student Affairs, Dean of the
  Division of Student Affairs.
Joseph Soshnik, Ph.D., Vice Chancellor for Business and Finance.
Ralph Leonard Ireland, D.D.S., M.S., Dean of the College of Dentistry.
John E. Aronson, M.A., Director of Admissions.
Lee W. Chatfield, M.A., Associate Dean of Student Affairs; Director,
  Junior Division.
Carl A. Donaldson, M.S., Business Manager of the University.
Floyd Hoover, Ph.D., Registrar.
J. Winston Martin, Ed.D., Associate Dean of Student Affairs (Men).
George S. Round, B.S., Director of Public Relations.
Helen Snyder, M.A., Associate Dean of Student Affairs (Women).
Robert W. Williams, M.S.E., Comptroller of the University.

The Faculty

William D. Ahrens, B.S.D., D.D.S., Instructor in Oral Diagnosis and Treatment Plan-
ning.
Selma B. Anderson, A.B., M.T., (ASCP), M.S., Assistant Professor of Oral Pathology.
Leland D. Arnott, D.D.S., Instructor in Dental Literature and History.
Mildred G. Atkinson, R.N., Instructor in Operating Room Technic.
Richard E. Bradley, B.S.D., D.D.S., M.S.D., Associate Professor of Periodontics (Chair-
man of Department).
Robert A. Brooks, B.S., M.D., Instructor in Oral Pathology.
Alan D. Brown, Laboratory Technician in Orthodontics.
Karl W. Bruce, B.S.D., D.D.S., M.S.D., Instructor in Oral Pathology.
Joan L. Catherman, R.D.H., B.S., M.S., Assistant Professor of Dental Hygiene.
Norman H. Cromwell, B.S., Ph.D., Professor of Chemistry (Chairman of Department).
Douglas O. deShazer, D.D.S., M.S., Assistant Professor of Research.
Warren E. Engelhard, B.S., M.S., Ph.D., Associate Professor of Microbiology.
Edward I. Fry, B.A., M.A., Ph.D., Associate Professor of Anthropology; Special Lectur-
er in Graduate Pedodontics and Orthodontics.
Burdette L. Gainsforth, D.D.S., M.S.D., Associate Professor of Orthodontics.
Carl E. Georgi, B.S., M.S., Ph.D., Professor of Microbiology (Chairman of Department).
Mary C. Gibb, B.S., R.N., M.T., (ASCP), Instructor in Periodontics.
Robert D. Gibson, B.S., M.S., Ph.D., Dean of the College of Pharmacy, Professor of Pharmacology.
Donald C. Haack, B.S., M.S., Associate Professor of Engineering Mechanics, College of Engineering; Special Lecturer in Graduate Orthodontics.
Keay Hachiya, A.B., M.D., Instructor in Pedodontics.
John D. Hayes, Laboratory Technician in Prosthodontics.
Kenneth E. Holland, B.S., D.D.S., Assistant Professor of Orthodontics.
Ralph L. Ireland, D.D.S., B.S., M.S., Dean of the College of Dentistry and Professor of Pedodontics.
Garth A. James, B.S., M.S., D.D.S., Assistant Professor of Endodontics.
Robert B. Johnstone, B.A., Ph.D., Associate Professor of Chemistry.
Donald A. Keys, B.A., D.D.S., Professor of Operative Dentistry (Chairman of Department).
Ray M. Knapp, D.D.S., Professor of Oral Diagnosis and Treatment Planning (Chairman of Department). Director of Clinical Coordination.
Jack M. Knodle, B.S., D.D.S., Associate Professor of Prosthodontics.
William S. Kramer, B.S.D., D.D.S., M.S.D., Professor of Pedodontics (Chairman of Department).
Earl L. Lampshire, B.S.D., D.D.S., M.S.D., Associate Professor of Pedodontics.
Paul A. Landolf, B.A., M.S., Ph.D., Assistant Professor of Physiology.
Leonard R. Lee, B.S., M.D., Instructor in Pedodontics.
Leland M. Lynn, B.S.D., D.D.S., Associate Professor of Fixed Denture Prosthesis (Chairman of Department).
Benjamin W. McCashland, B.S., M.S., Ph.D., Professor of Physiology.
T. Lawrence McKee, B.S.D., D.D.S., M.S.D., Instructor in Orthodontics.
Dwight D. Miller, A.B., Ph.D., Professor of Zoology (Chairman of Department of Zoology and Physiology).
Harold B. Miller, B.S., M.D., Instructor in Oral Pathology.
Samuel D. Miller, M.B., M.D., Associate Professor of Anesthesiology.
Thomas M. Moriarty, B.S.D., D.D.S., M.S.D., Instructor in Clinical Graduate Orthodontics.
Roland F. Mueller, M.D., Director of Dental Clerkship.
Francis D. Murphy, B.S.D., D.D.S., M.S.D., Assistant Professor of Orthodontics.
Harlan L. Papenfuss, A.B., M.D., M.S., Instructor in Oral Pathology.
Cecil F. Parker, A.B., LL.B., Instructor in Dental Jurisprudence.
Quentin O. Quay, D.D.S., Instructor in Practice Administration.
Vernon W. Rinne, B.S.D., D.D.S., Associate Professor of Operative Dentistry.
William I. Rotton, D.D.S., Director of Dental Clerkship.
Jessup M. Shively, B.S., M.S., Ph.D., Assistant Professor of Microbiology.
Edward W. Simpson, B.S., M.P.H., Lecturer in Public Health Dentistry.
George Skworcow, M.D., Instructor in Periodontics.
Ray H. Steinacher, B.S., D.D.S., M.S., Professor of Prosthodontics (Chairman of Department).
Robert M. Stiomm, B.S.D., D.D.S., M.S.D., Associate Professor of Fixed Denture Prosthesis.
Frank A. Stiewalt, B.S., M.D., Assistant Professor of Pedodontics.
Lee Stover, A.B., M.S., M.D., Assistant Professor of Internal Medicine.
Frank H. Tanner, B.S., M.D., Associate Professor of Oral Pathology.
Thomas L. Thompson, A.B., M.S., Ph.D., Associate Professor of Microbiology.
Donald T. Waggener, D.D.S., Professor of Oral Pathology (Chairman of Department). Coordinator of Cancer Instruction.
Elizabeth M. Warner, R.D.H., B.A., M.P.H., Associate Professor of Dental Hygiene (Chairman of Department).
W. Wallace Webster, B.S., D.D.S., Professor of Oral Surgery (Chairman of Department); Director, Dental Intern Program.
Sam Weinstein, D.D.S., M.S.D., Associate Professor of Orthodontics (Chairman of Department).
Patrick R. Wells, B.S., M.S., Ph.D., Assistant Professor of Pharmacology.
Elvin G. Wilkinson, B.S.D., D.D.S., M.S.D., Assistant Professor of Pedodontics.
Robert M. Wotton, A.B., M.A., Ph.D., Associate Professor of Zoology.
Hoyt Yowell, B.S., M.S., Ph.D., Assistant Professor of Anatomy.

Guest Lecturers

Standing Committees
Executive Committee—Dr. Ireland, Chairman; Dr. Kramer, Secretary
Drs. Bradley, Steinacher, Keys, Knapp, Lynn, Weinstein, Webster, Waggener, Miss Warner

Admissions—Dr. Rinne, Chairman; Dr. Lynn, Secretary
Drs. Steinacher, James

Student Advisory—Dr. Kleitsch, Chairman; Dr. McCabe, Secretary
Drs. Knodle, Stemm

Curriculum—Dr. Ireland, Chairman; Dr. Keys, Secretary
Drs. Knodle, Kramer

Library—Dr. McCabe, Chairman; Miss Warner, Secretary
Dr. V. A. Fry

Teaching—Dr. McCabe, Chairman; Drs. James, Knapp

Student Loans & Scholarships—Dr. Stemm, Chairman; Mrs. Gibb, Secretary
Dr. Rinne

Public Relations—Dr. Ahrens, Chairman; Drs. Sullivan, Webster

Graduate Programs—Dr. Ireland, Chairman; Drs. Weinstein, Bradley, Kramer

Hospital Affiliations—Dr. Webster, Chairman;
Bryan Memorial Hospital—Dr. Webster
Lincoln General Hospital—Dr. Rotton
St. Elizabeth Hospital—Dr. Waggener, Mueller

Continuing Education Courses—Dr. Waggener, Chairman; Drs. Keys, Sullivan

Predental Advisers—Dr. Steinacher, Chairman; Drs. Knodle, James

Aptitude Tests—Dr. Keys, Chairman; Dr. Bonness
THE COLLEGE OF DENTISTRY

The College of Dentistry is fully approved by the Council on Dental Education of the American Dental Association and is a member of the American Association of Dental Schools.

Admission to the College of Dentistry is on a selective basis. Selection is based on the quality of the applicant's work in liberal arts college, his character, his personality, and his aptitude for and interest in the study of dentistry.

PREDENTAL REQUIREMENTS

<table>
<thead>
<tr>
<th>High School</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Algebra</td>
<td>1</td>
</tr>
<tr>
<td>Geometry</td>
<td>1</td>
</tr>
<tr>
<td>Electives (English, foreign languages, mathematics, natural sciences, social studies)</td>
<td>11</td>
</tr>
</tbody>
</table>

Removal of Deficiencies

A student who has not studied algebra or plane geometry in high school must make up the deficiency by taking these subjects through the University Extension Division. Credits so earned may not be applied toward graduation; they can be used only to meet entrance requirements.

A student who is not a high school graduate or who is a graduate of a nonaccredited high school may not apply toward graduation any college hours earned to make up entrance requirements.

College

Applicants must successfully complete a minimum of 64 hours in a recognized liberal arts college. A maximum of 4 hours in physical education or military science may be used toward this requirement. These 64 hours should be completed by the end of the academic year prior to the desired fall term enrollment.

Required subjects are:
- 2 semesters in English composition
- 2 semesters in zoology or biology (zoology preferred)
- 2 semesters in general elementary chemistry
- 2 semesters in physics
- 1 or 2 semesters in organic chemistry (to include aromatic and aliphatic compounds)

Some elective subjects are:
- Anthropology
- Art
- Business Law
- Business Organization
- Economics
- English
- Foreign Language
- History
- Mathematics
- Philosophy
- Political Science
- Psychology
- Scientific Greek
- Sociology
- Speech
- Zoology

Although hourly requirements are not stated, generally the student will complete 6 hours in English composition, 6 hours in zoology or biology, 8 to 10 hours in physics, 6 to 10 hours in inorganic chemistry, and 4 to 8 hours in organic chemistry. All science courses must include both class and laboratory work.
GROUP REQUIREMENTS

Semester hours in any subject which is part of the College of Dentistry curriculum cannot be used in satisfying the admission requirements.

TRANSFER CREDIT

Transfer students must have an average grade of at least 4, or C where the lowest passing grade is D, in order to be eligible for admission. Before any student can be considered for admission, he must file in the Office of Admissions an official transcript of work already completed which shows also that he is in good standing. College credit earned at an accredited college can usually be transferred to the University of Nebraska College of Arts and Sciences, except that courses in which grades of D have been earned may not be transferred. As a general policy, the maximum number of credits a student may transfer from an approved junior college is 66, and the maximum for one semester is 17, for one summer session 8.

Transfer credit does not, however, count toward the grade average.

2-Year Predental Course

(Enterprise of Arts and Sciences)

First Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td>5</td>
<td>Chemistry 6 or 24</td>
<td>4-5</td>
</tr>
<tr>
<td>Zoology and Physiology 1</td>
<td>3</td>
<td>Zoology and Physiology 2</td>
<td>3</td>
</tr>
<tr>
<td>English 1 or 3</td>
<td>3</td>
<td>English 2 or 4</td>
<td>3</td>
</tr>
<tr>
<td>Military Science or Physical Education</td>
<td>1</td>
<td>Military Science or Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td></td>
<td>15-16</td>
</tr>
</tbody>
</table>

Second Year

| Chemistry 131          | 4     | Physics 2               | 5     |
| Physics 1              | 5     | Military Science or Physical Education | 1 |
| Military Science or Physical Education | 1 | Electives               | 10    |
| Electives              | 7     |                         | 16    |
|                         | 17    |                         |       |

APTITUDE TESTS

All students making application to the College of Dentistry are required to take the aptitude tests provided by the Council on Dental Education of the American Dental Association. Further information may be requested from the College of Dentistry.

GENERAL INFORMATION

Course Leading to the Degree of Bachelor of Arts or Bachelor of Science and Doctor of Dental Surgery.—By completing the group requirements of the College of Arts and Sciences and one minor under Plan A (or two minors under Plan B) and by using the subjects of the first year of the dental course as a major, the student is enabled to receive the degree of Bachelor of Arts or Bachelor of Science in the College of Arts and Sciences at the end of four years.

Group Requirements

The purpose of the group requirements is to provide a good introduction to the various types of knowledge upon which our civilization is founded.
The requirements are divided into six major classifications, known as Groups A, B, C, D, E, and F.

A. English Composition .................................................. 6 hours
   1, 2; or 3, 4

B. Humanities—Fine Arts, Literature, Philosophy .................................. 12 hours

At least 6 hours must be presented in literature from courses so designated in the Departments of Classics, English, Germanic Languages, and Romance Languages. Of these 6 hours a minimum of 3 must be taken in American or English literature. A maximum of 6 hours may be presented from Art (29, 31), Music (177, 178), Philosophy (courses other than logic), Speech (135, 136).

The following courses may not be used to fulfill the Group B requirement: in Art, Music, Speech, all courses not listed above; in English, all courses not now listed under Literature or Comparative Literature; in language departments all courses numbered under 100; Latin 116, 121, 219, 220, 223, 244; Greek, all courses below 200; German 107, 108, 109, 110; Scandinavian 231; French 113, 114, 119, 219, 220; Spanish 153, 154, 155, 223, 224.

No courses may be used to fulfill both the Group B and the Group C requirements.

C. Languages, Classical and Modern .......................................... 3-16 hours

This requirement will be fulfilled when a student has completed the fourth-semester college course in whichever language he studies (for example, French 14, German 4, Spanish 54, and Latin 6). If he has met the entrance requirement for 2 units of one foreign language in high school, he will fulfill the group requirement with 6 hours in the same language, provided that his placement examination indicates that he is ready for the third-semester college course. If his placement scores are such that he must take an earlier course, he must do so with reduced credit toward graduation.

Every candidate for a degree must present a minimum of 3 college semester hours in a foreign language, regardless of the number of units completed in high school.

A transfer student with 11 or 12 semester hours of accepted credit has two choices: (1) to enroll in the third-semester course in the same language and then continue with the fourth-semester course or (2) with the permission of the chairman of the department to enroll in the fourth-semester course.

The following courses may not be used to meet the language group requirement: Classics 31, 73, 74, 75, 115, 116, 281, 282, 283; Germanic Language 11, 12, 31, 32; Romance Languages 1, 2, 5, 6, 21, 22, 61, 62; Russian 1, 2.

A student from a foreign country who has demonstrated acceptable proficiency in his native language is exempted from the language group requirement without credit toward his degree.

D. Logic or Mathematics .................................................. 3 hours

One unit of algebra and one of geometry are included in the entrance requirements. A student who presents a third unit in mathematics composed of courses in one or two of the following—algebra, geometry, trigonometry—is exempted from the Group D requirement, provided that he qualifies for registration in Mathematics 14.
E. Natural Sciences ................................................................. 6-12 hours

Biology, botany, chemistry, geology, microbiology, physics and zoology.
This requirement may be met (a) by 10 hours in one science, or (b) by 6 hours in each of two sciences.

If biology is selected, the 10-hour requirement may be met by taking 4 hours of approved courses in botany, microbiology, or zoology, in addition to 6 hours of biology.

The requirement may be met by the completion of Chemistry 6 or 24.
Geology 1 and 2 may be used with any 4 hours of the following to meet the 10 hour option: Geology 15, 96, 97, 105, 106, 109.

F. Social Sciences .............................................................. 12 hours

A 6-hour sequence must be presented from one department from each of two of the following divisions:

1. History
2. Anthropology, psychology, sociology
3. Economics, geography, political science

Psychology 181 may not be used. From economics only courses listed under Economic Theory or Economic History may be used. From geography only 11, 12, 164, 167, 168, 169, 170 may be used; preferably 11 or 12 should be the first course. In psychology, sociology, economics, and political science, the beginning course and any other course not excluded above constitutes a sequence. In anthropology, 11 and 12 are the sequence. In history, 1 and 2, 91 and 92, are typical sequences.

Majors and Minors.—The subjects of the first year of the dental course may be used as a major. In addition, the student is required to complete one or two minors.

The Minor—Plan A.—If only one minor is completed, the requirements are the following:

Anthropology, 18 hours.

Art, 18 hours, including Art 1 (3 hours), 2 (3 hours), 11, 12, 3 (2 hours) or 5 (2 hours), 29, and 31.

Botany, 18 hours beyond Botany 2 or 3 or Biology 2, including Botany 103, 114, 119; Zoology and Physiology 141 or Agronomy 105; and 3 hours of botany at the 200 level.

Chemistry, 8 hours beyond Chemistry 22, 24, or 119.

Economics, 18 hours.

English, 24 hours, including 9 hours of literature at the 200 level.

Geography, 18 hours, including 10 hours at the 100 or 200 level.

Geology, 22 hours.

German, 12 hours at the 100 or 200 level, including at least 2 hours at the 200 level.

Greek, 12 hours at the 100 or 200 level, excluding Greek 115, 117, 281, 283.

History, 18 hours, including a 6-hour sequence in United States history, a 6-hour sequence in other than United States history, and two 3-hour courses at the 200 level.

Journalism, no minor.

Latin, 12 hours at the 100 or 200 level, excluding Classics 116, 282, 283.

Mathematics, 116 or 132, and two courses (6 hours) numbered above 120, exclusive of Mathematics 145.

Microbiology, 12 hours beyond Microbiology 111.

Music, 18 hours—5 hours of consecutive courses in minor applied music classes, 2 hours of related ensemble courses, Music 71, 72, 73, 79, and 178.
Philosophy, 18 hours.
Physics, 12 hours beyond Physics 2 or 104, including three courses at the 200 level.
Political Science, 18 hours, including Political Science 10; 153, 220, or 222; and 251, 252, 263, or 264.
Psychology, 18 hours, including Psychology 190; 251, 261, 262, or 293; and 280, 287, or 288.
Romance Languages, 12 hours in one language at the 100 or 200 level, including 3 hours at the 200 level.
Sociology, 18 hours, including Sociology 53.
Speech, 18 hours, exclusive of Speech 9, 11, and 111, and including Speech 14, 105, and 109.
Zoology and Physiology, 21 hours (biology may be included).

The Minor—Plan B.—If two minors are completed, the requirements in each are the following: Air, Military, or Naval Science, 16 hours; Anthropology, 12 hours; Art, 12 hours; Botany, 10 hours beyond Botany 2 or 3 or Biology 2; Chemistry, 4 hours beyond Chemistry 22, 24, or 119; Economics, 12 hours; English, 18 hours; Entomology, 6 hours numbered above 200; Geography, 12 hours; Geology, 16 hours; German, 6 hours numbered above 100; Greek, 16 hours, excluding Greek 73, 115, 117, 281, 283; History, 12 hours; Journalism, no minor; Latin, 6 hours numbered above 100, excluding Classics 116, 282, 283; Mathematics, Mathematics 115; Microbiology, 6 hours beyond Microbiology 111; Music, 12 hours (3 hours of consecutive courses in minor applied music classes, 2 hours of related ensemble courses, and 71, 72, and 178); Philosophy, 12 hours; Physics, 6 hours beyond Physics 2 or 104; Political Science, 12 hours; Psychology, 12 hours; Romance Languages, 6 hours, in one language, numbered above 100; Russian, 6 hours numbered above 100; Sociology, 12 hours; Speech, 12 hours; Zoology and Physiology, 10 hours beyond Zoology and Physiology 2 or 6 or Biology 2.

In support of certain majors, minors outside the College of Arts and Sciences are permitted under Plan B: Agricultural Economics, 12 hours; Architecture, 12 hours; Business Organization, 12 hours; Civil Engineering, 16 hours; Dance (consult adviser); Home Economics (Textiles, Clothing, and Design), 12 hours; Pharmacology, 12 hours; Physical Education for Women, 12 hours exclusive of practice courses.

ADMISSION TO THE COLLEGE OF DENTISTRY

Formal application must be made on regular blanks which may be obtained by writing to the Admissions Committee of the College of Dentistry, Andrews Hall. Final date for submitting applications is March 15 prior to the academic year in which you intend to enroll.

An applicant should submit an official transcript of courses and grades from each college or university in which he has completed predental requirements.

A record of the aptitude test score must be submitted. The Admissions Committee usually selects the freshman class before the April testing date. It is recommended, therefore, that the dental aptitude tests be taken in October, or in January of the year the applicant wishes to apply.

A personal interview is urged but not necessarily required.

A student may make application when he has completed two semesters of predental work (30 semester hours). His application must be accompanied by a statement showing courses for which he is currently registered or which he will complete prior to the beginning date of the class he desires to enter. However, he must complete the specific minimum requirements (including two semesters in English composition, two semesters in zoology or biology, two semesters in inorganic chemistry, two
semesters in physics, and one semester in organic chemistry) by June of the year in which he desires to enter the College of Dentistry.

All aliens, regardless of residence, but excluding persons who have commenced their naturalization process, are charged an application fee of $5.00. This fee is nonrefundable; however, if the applicant enrolls, this fee will apply towards payment of tuition and fees. This fee should accompany the application for admission.

When a student receives notice that he has been accepted for admission to the College of Dentistry, he is required to make a deposit of $100, which will be applied to his first semester registration fee. It will be forfeited if he fails to register for that session.

After a student is admitted, his credentials are filed in the Registrar's Office and become the permanent property of the University.

Ex-servicemen are urged to get in touch with the Office of Veterans Affairs, Administration Building 503, if they plan to attend the College of Dentistry under the provisions of one of the G. I. Bills.

**FEES AND EXPENSES**

All fees must be paid to the Comptroller at the time of registration. No person may enroll in or attend classes until his fees are paid. The following fees will remain in force for the year unless changed by the Board of Regents prior to registration.

Each resident student who enrolls in the College of Dentistry pays a fee of $475 per semester, which covers the major school expenses for that period. Each nonresident student pays $680 a semester.

Each student who enrolls in the clinic during the summer session will be charged an administrative fee of $15. This fee is included in the regular undergraduate tuition paid when students enroll for three or more hours of courses during the summer session.

**TEXTBOOKS, INSTRUMENTS, AND MATERIALS**

All required textbooks, dental instruments and materials are loaned for the student's use during his four-year dental college training. As these items become needed for the various courses, they are issued to the student.

If any issued item is lost or damaged beyond usefulness, the student must make replacement at his own expense. If for any reason additional supplies become necessary, the student must pay for the needed item or items.

Upon completion of the dental course and the conferring of the D.D.S. degree, all textbooks and instruments then become the property of the student.

Pens, pencils, notebooks and paper are not furnished by the College. (Examination "blue-books" will be furnished by the College.) Each student must provide himself with a minimum of four dental operating gowns of a type specified by the College and such laboratory gowns as may be required in the laboratory courses; he must maintain them in clean, presentable condition at his own expense.

**MISCELLANEOUS FEES**

The following incidental expenses are not included in the above semester fees:

- Late registration, minimum ........................................... $ 3.00
- Additional for each week after the first week of classes .......................... 1.00

* Fees are subject to change.
### Transcript Fee
- One copy furnished free: $1.00
- Each additional copy: $1.00

### Degree in Absentia
- $10.00

### Special Examination, Each Course
- $3.00

### Re-examination, Each Course
- $3.00

### Advanced Standing Examination, Per Credit Hour
- $6.00

### Audit Fee, Per Credit Hour
- $3.00

### Abstract Fee (Ph.D. Degree)
- $25.00

### Thesis Binding (Master's and Ph.D.)
- $5.00

### Special Examination, Each Course
- $1.00

### Certificate
- $1.00

### Cap and Gown Rental:
- Bachelor's cap and gown: $3.00
- Master's cap and gown: $3.50
- Master's hood: $3.50
- Ph.D. cap and gown: $4.00
- Ph.D. hood: $4.00
- J.D. cap and gown: $4.00
- J.D. hood: $4.00
- D.D.S. cap and gown: $4.00
- D.D.S. hood: $4.00

*Fees are subject to change*

### Graduate Courses in Pedodontics, Periodontics and Orthodontics for Advanced Degrees
(For description, fees, etc., see the Bulletin of the Graduate College.)

### Classification of Resident and Nonresident Students
A student's right to classification as a resident for purposes of registration in a state educational institution must be determined under the provisions of Section 85-502, Revised Statutes of 1943, Reissue of 1958, as amended.

Any student who has been classified as a nonresident student who believes he can qualify as a resident may secure from the University Comptroller a residency application form and, when it has been properly filled out, file such form with the Comptroller for review and ruling. The form must be filed in the Office of the Comptroller before the end of the ninth week of the term for which the tuition fee was charged. For the summer session, the deadline is end of the third week.

The exact wording of the state law on residency is given on the application form.

### Fee Refunds
A student who withdraws from the University during any term for which he is registered is entitled to claim a refund of a portion of his fees, as set by the Comptroller of the University, unless he withdraws after the thirty-fifth calendar day of the regular term. The amount refunded depends upon the elapsed time from the beginning of the term to the effective date of the withdrawal or drop.

As explained previously, the textbooks, dental instruments and materials issued for student use are merely loaned during the dental training period. Should a student withdraw from school prior to graduation with a D.D.S. degree, all books, instruments, and unused supplies must be returned to the dental store before any refunds will be made.

For the summer session there will be no refund.

A student having completed any course (or courses) of the dental curriculum elsewhere than at the scheduled time in the dental course will receive no deduction from the stated semester fee, even though the course (or courses) may be accepted for credit toward his D.D.S. degree.
SCHOLASTIC REGULATIONS

Class Attendance.—No student may be admitted later than ten days after the opening of the fall session. It is very much to the advantage of each student to register and be in attendance at his classes at the very outset of each semester of work. No credit is granted to any student for matriculation or attendance where such attendance is less than one semester in duration. Moreover, each student must remain in continuous attendance during each semester for which credit is sought. If for any reason a student's program is discontinued and he subsequently returns to the University, he must satisfy all requirements for graduation as they may exist at the time of his re-entrance upon his studies.

Attendance Requirements.—Attendance at less than 80 per cent of the scheduled lectures and recitations, or 85 per cent of the scheduled laboratory and clinical hours, constitutes a failure in any course, and will be so reported. Temporary leave of absence may be obtained from the Dean of the College, the Associate Dean of Student Affairs, or the Dean of the Division of Student Affairs. However, such leave does not excuse a student from meeting all course requirements.

Class Standing and Examinations.—The standing of a student in any course is determined by the instructor in charge of the subject through examination, personal contact, and observation of routine work. The passing grade and weighted average for subjects of the first and second dental years is 4, and for the third and fourth dental years is 5.

Credit will not be allowed in any of the following courses unless a passing grade is made in both lecture and laboratory portions of the course: Fixed Denture Prosthesis 31, 32, 73, 74; Operative Dentistry 11, 12, 51; Prosthodontics 34, 71.

Final examinations are held at the end of each semester. Other examinations may be held at the option of the instructor. Individual examinations are allowed only after the regular examinations have been completed and then only with the permission of the instructor.

A course which for a good reason has not been completed may, if of passing grade, be marked “Incomplete.” Unless an incomplete is removed by the eighth week of the following semester, it becomes a failure.

A failed subject must be absolved by re-registration in and satisfactory completion of the subject.

HONORS

The Honors Convocation is held annually for the purpose of giving recognition to students who excel in scholarship. The printed program of the ceremonies gives the names of the seniors who rank in the upper three per cent of their class, the names of students who have been on the honors lists since matriculation as freshmen, and the names of the students who rank in the upper ten per cent of each of the four classes of each college of the University.

Alpha Alpha chapter of Omicron Kappa Upsilon, the dental honorary fraternity, was chartered at the University of Nebraska College of Dentistry in May, 1929. Election to this honor society is based upon scholarship, conduct, and data gathered by the faculty and recorded on a character analysis chart.
APPLICATION FOR DEGREE

A student expecting to receive a certificate or a diploma must make proper application for such certificate or for admission to candidacy for a degree. The application must be made at the Office of the Registrar, Administration Building 208. No student is recommended for a degree who has not been reported at the beginning of his last semester of attendance as being within 18 hours of meeting the requirements for the degree for which application is made.

DEGREES

1. DOCTOR OF DENTAL SURGERY
   The candidate for this degree must have completed the prescribed curriculum, passed the necessary examinations, and received the required credits therein. He must also have met all the general scholastic requirements of the University.

2. and 3. COMBINED DEGREES OF BACHELOR OF ARTS OR BACHELOR OF SCIENCE AND DOCTOR OF DENTAL SURGERY
   By completing the group requirements of the College of Arts and Sciences and two minors (or one major) and by using the subjects of the first year of the dental course as a major, the student is enabled to receive at the end of four years the degree of Bachelor of Arts or Bachelor of Science in the College of Arts and Sciences as well as the degree of Doctor of Dental Surgery. For group requirements consult the Bulletin of the College of Arts and Sciences.

4. MASTER OF SCIENCE IN DENTISTRY
   Graduate work leading to the degree of Master of Science in Dentistry is offered under rules and regulations established by the Graduate College with specialization in pedodontics, periodontics or orthodontics. The courses are designed to meet the needs of the dentist who desires to devote his entire time to the practice of pedodontics, periodontics or orthodontics or who wishes to broaden his knowledge as a foundation for teaching or research.

Every candidate for a degree is required to participate in commencement exercises unless he is officially excused by the dean of his college. Inasmuch as the date of commencement is known long in advance, students can usually avoid commitments which conflict with graduation ceremonies. A candidate who is excused from attendance at commencement must pay an in absentia fee of $10.00.

SCHOLARSHIPS

A number of scholarships have been provided for worthy students enrolled in the University of Nebraska. Many of these awards have been made possible by gifts and grants from individuals and organizations through the auspices of the University of Nebraska Foundation.

Except for those scholarships set up for incoming Nebraska freshmen or for students from other Nebraska colleges and universities, awards are not available until at least 24 hours of credit have been earned at the University of Nebraska.

Although certain scholarships have their own special qualifications, most scholarships require that:

1. The student must present a good scholastic record. In most cases an over-all grade average of 6.0 or above is required.
2. The student must be worthy of financial assistance. Financial need is an important consideration in many scholarships. Even where financial need has been established, the applicant must show by his academic progress and by good conduct that he is worthy of such aid.

Scholarship applications from resident students are usually accepted in February of each year, the awards being made in the late spring or early summer for the following academic year. Application forms may be obtained at the office of the Dean or the Office of Scholarships and Financial Aids. Applications are not accepted from students who have “incompletes” on their records.

It is the practice to pay one-half of the award at the beginning of each semester.

*Donald Walters Miller Scholarship*

Donor: Mrs. Donald Walters Miller, Lincoln, Nebraska
Value: Three or four scholarships or fellowships at $1,000 each
Qualifications: Sophomores or above, or graduate students on recommendation of College. Awards made on basis of scholastic ability, educational and professional objectives, character, temperament and financial need. Candidates must be registered in the University of Nebraska at time of application.
Apply by March 1 to the Dean of the College of Dentistry and inquire about letters of application and recommendation.

*Richard R. Ross Memorial Fellowship in Pedodontics*

Donor: Elks Lodge No. 80 of Lincoln, Nebraska
Value: $1,200
Qualifications: A graduate student working toward a graduate degree in dentistry with a major in pedodontics. Apply to the Dean of the College of Dentistry.

*Patterson-Hettinger-Carey Fellowship*

A grant of $600 is provided annually by the M. F. Patterson Dental Supply Company for use in support of research and graduate study. Fellowships for graduate students in dentistry are available under this grant. This fellowship does not carry remission of tuition fees.

The University of Nebraska Upperclass Regents Scholarship

Donor: The University of Nebraska through its Board of Regents
Value: $204 each
Qualifications: Sophomore, junior and senior students in the College of Dentistry. Awards made on basis of high scholarship. Apply to Committee on Scholarships and Financial Aids.

**STUDENT LOAN FUNDS**

Student loans at the University of Nebraska are available to qualified students who are enrolled in the University and who are in need of financial assistance to continue their college education. Loans are made from some 80 separate funds which have been established by organizations, firms, and individuals, and by the National Defense Education Act of 1958. Most of these funds are in the custody of the Board of Regents or

* Funds in the custody of the University of Nebraska Foundation.
the University Foundation and are not regarded as a part of the University's resources. Loan funds are administered in accordance with the wishes of the donors and the policies adopted by the Committee on Scholarships and Financial Aids.

Although loans may be granted from any one of several University loan funds, the following loan funds are specifically designated for the College of Dentistry and are administered as indicated:

Those under the administration of the University of Nebraska Office of Scholarships and Financial Aids, Administration Building 205:

1. The Dr. Clyde W. Davis Student Loan Fund.
2. The W. K. Kellogg Student Loan Fund.

Those under the administration of the College of Dentistry Student Loan Committee:

1. The Lewis A. and Anna F. Seberg Student Loan Fund.
2. The Wayne F. Larrabee Memorial Fund.
3. The College of Dentistry Alumni Student Loan Fund.
4. The American Dental Trade Association Senior Student Loan Fund.
5. The S. J. Kramer Memorial Fund.
6. The International College of Dentists (U.S.A. Section) Student Loan Fund.
7. Mrs. Kenneth C. Christensen Memorial Fund.
8. American Dental Association—Fund for Dental Education, Dental Student Loan Fund.

Further information regarding loans can be obtained from the Office of Scholarships and Financial Aids, 205 Administration Building.

Students who need to work part time while attending the University of Nebraska should also get in touch with the Office of Scholarships and Financial Aids.
PROFESSIONAL COURSE IN THE COLLEGE OF DENTISTRY

Professional Course—133 Semester Hours of Credit

First Year

First Semester

Chemistry 246—Biochemistry (4 cr) Johnston
Lect 3, lab 4. Prereq Chem 131 or 231
Chemistry and metabolism of the proteins, carbohydrates and lipids. Enzymes. Biological oxidations.

Dental Orientation and Ethics I (6 cr) Ireland, Staff
Lect 1
To motivate students to recognize and fulfill their social and moral responsibilities to their patients, their civic responsibility to the community, and their ethical obligation to the profession of dentistry.

Fixed Denture Prosthesis 31—Dental Materials (2 cr) Stemm
Lect 2, lab 3
The study of materials used in dentistry. Particular emphasis is placed on chemical and physical properties, indications for usage, limitations, and methods of manipulation. Modified and simplified dental structures constructed in the laboratory.

Anatomy 105—Gross and Developmental (4 cr) Anderson, Yowell
Lect 2, lab 8. Prereq Zool & Physiol 1 and 2 or equivalent
Lectures, demonstrations and laboratory dissection of the integument, fascia, nerves, blood vessels, and musculature of back; the meninges and spinal nerve cord; superficial structures of head and neck; brain and meninges; and cervical plexus.

Second Semester

Dental Literature and History 2 (1 cr) Arnot
Lect 1
Guidance in the selection of current dental literature. Instruction in history of the profession, familiarizing the student with the development and progress of dentistry and those responsible for it.

Fixed Denture Prosthesis 32—Dental Material (1 cr) Stemm
Lect 1, lab 3
FDP 31 cont'd.

Operative Dentistry 12—Oral Physiology and Dental Anatomy (4 cr) Keys, Kramer
Lect 2, lab 5
Functions of the oral structures. The anatomy of the permanent and primary teeth is studied and their forms carved.

Oral Pathology 20—Oral Histology (2 cr) Anderson
Lect 1, lab 2
A study of the composition and microscopic anatomy of the teeth and their supporting tissues.

Prosthodontics 34—Complete Denture Prosthesis (4 cr) Hayes, Steinacher
Lect 2, lab 8
Materials and technical procedures of complete denture construction.

Anatomy 106—Gross and Developmental (4 cr) Anderson, Yowell
Lect 2, lab 8. Prereq Anat 105
Lectures, demonstrations, and laboratory dissection of thorax, axilla, brachial plexus; certain joints; deep parts of head and neck; orbit and eye; ear; and upper extremity. Study of abdomen and lower extremity.
Second Year
First Semester

Fixed Denture Prosthesis 73—Dental Ceramics (2 cr) Lynn
Lect 1, lab 3
Fabrication of porcelain and acrylic resin veneer crowns and inlays; construction of porcelain units for partial dentures; staining and coloring processes.

Microbiology 111—General Microbiology (5 cr) Georgi, Staff
Lect 3, lab 6, Prereq 1 yr chemistry and 1 yr biological science
An introduction underlying the activities of bacteria and other microorganisms. For general dental, premedical and pharmacy students. Laboratory work arranged to meet the needs of each specific group.

Operative Dentistry 51—Operative Technology (3 cr) McCabe, Rinne
Lect 2, lab 6
The fundamental principles of operative dentistry; classification of cavities, instrumentation, preparation, and the indication, selection, and use of various restorative materials.

Oral Pathology 61—Oral Roentgenographic Technics (1 cr) Waggener
Lect 1, lab 3
Development, construction and functions of dental X-ray units. The students are taught technical procedures for exposing dental X-ray films based on the characteristic behavior of X-rays. These procedures result in the best visualization of all areas of dental arches for the purpose of diagnostic interpretation of the exposed film.

Periodontology 63—Preventive Periodontics (1 cr) Bradley, V. Fry
Lect 1
An introduction to periodontology emphasizing detection and removal of local etiological factors in periodontal disease. Lectures, laboratory, and clinical exercises will be used to acquaint the student with technics of oral examination and oral prophylaxis.

Zoology and Physiology 121—Vertebrate Physiology (3 cr) Landolt
Lect 2, lab 3, rec 1. Prereq Biol 2 or Zool&Physiol 2; Chem 6 or 24, or equivalent
Fundamental processes in the living cell. A comparative study of the functions and metabolisms of muscles, nerves, central and autonomic nervous systems and the special senses.

Prosthodontics 71—Removable Partial Denture Prosthesis (3 cr) Hayes, Steinacher
Lect 2, lab 6
Materials and technical procedures of partial denture construction.

Second Semester

Fixed Denture Prosthesis 74—Fixed Partial Denture Prosthesis (4 cr) Lynn, Stemm
Lect 2, lab 6
Crown and bridge technology.

Operative Dentistry 52—Clinical Orientation, Local Anesthesia, and Clinical Dentistry (3 cr) Bonness, Bradley, V. Fry, McCabe, Merchant, Rinne, and Staff
Lect 2, clinic 3
Beginning clinical instruction. Clinical operative and prophylactic procedure; problems encountered in clinical practice.

Oral Pathology 52—Oral Roentgenographic Interpretation (1 cr) Waggener
Lect 1
Normal, abnormal, and pathological changes occurring in the oral and dental tissues as depicted in dental X-ray films. Correlation of tissue changes and their roentgenographic appearance.

Oral Pathology 56—Applied Anatomy of the Head and Neck (1 cr, 8 wks) Anderson
Lab 3
Practical application of anatomy of the head and neck with particular reference to local anesthesia, oral infections, surgery, and neoplastic diseases.

Oral Pathology 58—General Pathology (3 cr) Brooks, H. Miller, Papenfuss, Tanner
Lect 2, lab 3
General pathological processes with special reference to inflammation, specific tissue reactions, and stressing the practical application of fundamental pathology to the practice of dentistry. The course utilizes material from the museum of pathological specimens and places emphasis on the neoplastic diseases of the mouth and associated structures.
Zoology and Physiology 122—Vertebrate Physiology (3 cr) Landolt
Lect 2, lab 3, rec 1
Zool&Physiol 121 cont’d. Blood and circulation, respiration, nutrition, digestion, excretion, ductless glands, and reproduction.

Third Year
First Semester

Fixed Denture Prosthesis 145—Clinical Fixed Partial Dentures (1 cr) Lynn, Stemm
Clinic 3

Operative Dentistry 117—Operative Technology and Clinical Dentistry (3 cr) Bonness, Keys, McCabe, Merchant, Rinne
Lect 2, clinic 8
The restoration of impaired natural teeth to normal function by operative procedures.

Oral Diagnosis 113—Diagnosis and Treatment Planning (1 cr) Ahrens, Knapp
Lect 1, clinic 2
Lectures and clinical periods devoted to the use and value of supportive diagnostic material and methods: study and recording of the basic elements of oral examinations. These recorded studies, with total patient health in mind, are related to probable prognoses and to the development of satisfactory treatment programs.

Operative Dentistry 119—Operative Technology and Clinical Dentistry (1 cr) Bonness, McCabe
Lect 1, lab 1
The fundamental principles of gold foil operations with classification of cavity preparations, instrumentation, and indications for its use. Ultra-speed instruction and demonstration are given.

Periodontology 127—Theoretical Periodontology (1 cr) Bradley, V. Fry
Lect 1, clinic 2
Tissue changes in diseases of the supporting tissues of the teeth as observed clinically, microscopically, and roentgenographically. Causes and treatment of the diseases are stressed.

Orthodontics 131—Orthodontic Technology (2 cr) Holland, McKee
Lect 1, clinic 2
Manipulation of various types of orthodontic materials, including construction of orthodontic appliances, taking impressions, and making study-casts.

Pedodontics 133—Public Health Dentistry (1 cr) Wegener, Assistants
Lect 1
Discussion of public health agencies, organization, administration and function: public health problems, their prevention and control; public health dentistry; dental health problems, causes, results, prevention, dental carses control, education, economics, professional and lay responsibilities.

Pedodontics 135—Pedodontics and Nutrition (3 cr) Kramer, Sullivan
Lect 3
Brief review of embryology, histology, and anatomy of the primary teeth; child growth and development; management of the child in the dental chair; examination of the child patient; treatment planning and operative procedures for the primary and young permanent teeth; pulp treatments; space maintenance; fractured primary and permanent teeth; physical diagnosis; diet and nutrition, and parent-child and parent-dentist relationship. Reading assignments given to cover the current literature on the subject discussed.

Pharmacology 139—Dental Pharmacology (3 cr) Wells
Lect 2, lab 3. Prereq Zool&Physiol 122
Didactic study of the origin, preparations, actions, uses, and toxicology of selected drugs.

Prosthodontics 141—Prosthodontics (1 cr) Knodle
Lect 1
Lectures and clinical demonstrations on various denture procedures and problems.

Prosthodontics 143—Clinical Prosthodontics (1 cr) Knodle, Leeper, Steinacher
Clinic 3

Second Semester

Fixed Denture Prosthesis 146—Clinical Fixed Partial Dentures (1 cr) Lynn, Stemm
Clinic 3
FDP 145 cont’d.
Operative Dentistry 118—Clinical Operative Dentistry (2 cr) Bonness, Keys, McCabe, Merchant, Rinne
Clinic 6
OpDent 117 cont’d.

Oral Diagnosis 114—Diagnosis and Treatment Planning (1 cr) Ahrens, Knapp
Lect 1, clinic 2
OralDiag 113 cont’d., with added emphasis on the probabilities and implications involved in programming treatments of a more complicated or urgent nature. Students are expected to report on, and discuss, the handling of treatment and management problems. The professional and moral responsibilities of the dental practitioner are related to these problems.

Oral Pathology 124—Oral Pathology (2 cr) Anderson, Waggener
Lect 1, lab 2
Abnormalities of development and the pathological changes in diseases of the teeth and oral tissues. Clinical, microscopic and roentgenographic findings are correlated.

Oral Surgery 126—Pulp Therapy (1 cr) James
Lect 1, lab arr
Diseases of the pulp and methods of removal, including the treatment and filling of pulp canals.

Periodontology 128—Periodontal Therapy (1 cr) Bradley, V. Fry
Lect 1, clinic 2
Perio 127 cont’d. Students have an opportunity to make practical application in the infirmary of the fundamentals of diagnosis and treatment of periodontal disease.

Oral Surgery 122—Operating Room Technic (1 cr) Atkinson
Lect 1
Fundamental principles and methods of operating room technic armamentarium, and set-up for oral surgery; care and sterilization of surgical instruments and supplies.

Oral Surgery 134—Oral Surgery (1 cr) Kleitsch
Lect 1
Introductory course in oral surgery, stressing the fundamentals of surgery of the oral cavity.

Orthodontics 132—Orthodontics (2 cr) Holland, McKee
Lect 1, clinic 3
Lectures on the growth and development of the face, principles of occlusion, and the recognition of the development of malocclusion, with emphasis on the practical interception of such development. Clinical assignments will include simple interceptive orthodontic procedures and appliances that can be used by the general practitioner. Orthodontic examinations and appraisals will be made on all acceptable pedodontic cases and these will be reappraised each year to study their growth and development.

Pedodontics 138—Clinical Pedodontics (1 cr) Best, Burton, Kramer, Reichenbach, Sullivan, Wilkinson
Clinic 3
Student makes complete mouth examination of each child, including a prophylaxis and complete mouth radiograms; each case is diagnosed and the treatment planned, after which all operative and surgical procedures are carried to completion by the student. The dental student is instructed in the team approach to restorative dentistry by utilizing the services of a chairside assistant. Parents are also informed about other facts concerning the child’s dental health.

Pharmacology 140—Dental Medicine (2 cr) Wells
Lect 2
Physical and chemical properties, pharmacological action, dosage, and methods of administration and application of medicinal agents used in the treatment of oral disease; agents used in the disinfection of materials and instruments used in dentistry; prescription writing.

Prosthodontics 144—Clinical Prosthodontics (1 cr) Knodle, Leeper, Steinacher
Clinic 3
Prosth 143 cont’d.

Summer Session

Clinical Practice (cr arr) Staff
Instruction in all phases of clinical practice is offered in the summer session. It is intended for those students who desire to augment their proficiency in clinical service. Students receiving “Incompletes” in previous clinical courses are urged, and may be required, to register in this course. Credit will be allowed for assignments satisfactorily completed. Clinic hours arranged.
Fixed Denture Prosthesis 187—Clinical Fixed Partial Dentures (1 cr) Lynn, Stemm
Lect 1, clinic 2
Basic review of crown and bridge technology, more complex fixed partial denture planning, occlusal revision and a review of new or current technics.

Operative Dentistry 155—Clinical Operative Dentistry (3 cr) Bonness, Deines, Keys, McCabe, Merchant, Rinne
Lect 1, clinic 6
Clinical practice continued. The student is permitted to work with less supervision and is assigned the more complicated cases. Class 3 gold foil demonstration.

Oral Diagnosis 158—Oral Diagnosis and Treatment Planning (1 cr) Ahrens, Knapp, and Staff
Clinic 2
The student is confronted with many ordinary and complex problems in the evaluation of dental conditions and diseases as they appear in new patient groups. Approaches to the preliminary and final management of these problems in all areas of dentistry are explored, evaluated, and programmed. The relationship to both physical and dental health is carefully considered.

Oral Pathology 169—Oral Medicine (1 cr) Waggener and Staff
Clinic 1, inf 2
Diseases of certain organs and systems as related to diseases of the mouth, including diagnosis and treatment of diseases of the oral cavity, the teeth and their supporting tissues.

Oral Pathology 191—Neoplastic Diseases (1 cr) Waggener and Staff
Lect 1, tumor clinic 1
A course designed to make the student aware of the responsibility of the dentist for the early diagnosis of malignant diseases of the oral cavity and adjacent structures.

Oral Surgery 161—Clinical Pulp Therapy (1 cr) James
Clinic 1
Students observe and gain experience in the diagnosis and treatment of diseases of the pulp and periapical region, including removal of the pulp, treatment of and filling of the pulp canal and apicoectomies.

Oral Surgery 163—Oral Surgery and Hospital Training (1 cr) Kleitsch, Stover, Webster
Lect 2
Surgery of the mouth, etiology, diagnosis, and treatment. A junior internship will familiarize a student with hospital routine, care of patients hospitalized for general, as well as for oral, diseases, and produce a better understanding of the problems in the fields of medicine and allied professions.

Oral Surgery 165—General Anesthesia (1 cr) S. Miller
Lect 1
Consideration of the various general anesthetic agents that are administered by inhalation and by intravenous injection.

Oral Surgery 167—Clinical Oral Surgery (2 cr) Kleitsch, Webster
Clinic 4
Students operate under local or general anesthesia. Observations of and assistance in the operating of impactions, cysts, tumors, alveolectomies, sinus and fractures.

Oral Surgery 173—Maxillo-facial Surgery (1 cr) Singer, Webster
Lect 1
Maxillo-facial problems that are of interest to the general dentist.

Orthodontics 175 (2 cr) Holland, McKee
Lect 1, clinic 2
Ortho 135 cont’d.

Pedodontics 179—Clinical Pedodontics (1 cr) Best, Burton, Kramer, Reichenbach, Sullivan, Wilkinson
Clinic 3
Pedo 136 cont’d.

Periodontics 125—Clinical Periodontics (1 cr) Bradley, V. Fry, Lofgreen
Clinic 2
Clinical management of periodontal disease. The student will be instructed in some of the more advanced therapeutic procedures used in the treatment of periodontal disease.

Prosthodontics 183—Clinical Prosthodontics (1 cr) Knodle, Leeper, Steinacher
Clinic 3
Practice Administration 150 (1 cr) Quay
Lect 1
Professional ethics, business methods, dental records, case presentation, and general management of dental practice.

Dental Jurisprudence 190 (1 cr) Parker
Lect 1
Legal information which is essential and beneficial to the practicing dentist. Professional ethics is included.

Fixed Denture Prosthesis 188—Clinical Fixed Partial Denture Prosthesis (1 cr) Lynn, Stemm
Clinic 2
OpDent 155 cont’d. The student is expected to rely on his own judgment and is permitted to work with less supervision.

Oral Diagnosis 160—Oral Diagnosis and Treatment Planning (1 cr) Ahrens, Knapp, Staff
Clinic 2
OralDiag 159 cont’d.

Oral Pathology 170—Oral Medicine (1 cr) Waggener and Staff
Lect 1, clinic 2
OralPath 169 cont’d.

Oral Pathology 192—Neoplastic Diseases (1 cr) Waggener and Staff
Lect 1, tumor clinic 1
OralPath 191 cont’d.

Oral Surgery 162—Clinical Pulp Therapy (1 cr) James
Clinic 1
Pulp Therapy 161 cont’d.

Oral Surgery 164—Oral Surgery and Hospital Training (1 cr) Kleitsch, Webster
Clinic 3
OralSurg 163 cont’d.

Oral Surgery 166—General Anesthesia (1 cr) S. Miller
Lect 1
OralSurg 165 cont’d. In addition, each student administers the various anesthetic agents in the surgery clinic.

Oral Surgery 168—Clinical Oral Surgery (2 cr) Kleitsch, Webster
Clinic 4
OralSurg 167 cont’d.

Orthodontics 176—Clinical Orthodontics (2 cr) Holland, McKee
Seminar and clinic 3
Prevention and correction of dento-facial anomalies. Each student will be given clinical assignments in the clinic. Practical applications of previously demonstrated appliances and comprehensive seminars on growth and development of the head and face.

Periodontics 130—Clinical Periodontics (1 cr) Bradley, V. Fry, Lofgreen
Clinic 2
Perio 129 cont’d with emphasis on the more complicated periodontal involvement.

Prosthodontics 184—Clinical Prosthodontics (1 cr) Knodle, Leeper, Steinacher
Lect 1, clinic 2
Review of basic prosthetic procedures; cleft palate research and treatment concepts, oral rehabilitation, occlusal equilibration in artificial and natural dentitions, and adjunctive information specific to other prosthetic problems.
### COURSES OF INSTRUCTION

In the materials which follow, you will find an arrangement of courses by departments of instruction showing course number, title, and instructors.

#### Non-Departmental Courses
(Directed by the Dean)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Instructors</th>
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<td>Dental Orientation and Ethics</td>
<td>Ireland, Staff</td>
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<td>2</td>
<td>Dental Literature and History</td>
<td>Arnot</td>
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<tr>
<td>105</td>
<td>Anatomy</td>
<td>Anderson, Yowell</td>
</tr>
<tr>
<td>106</td>
<td>Anatomy</td>
<td>Anderson, Yowell</td>
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<tr>
<td>150</td>
<td>Practice Administration</td>
<td>Quay</td>
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<tr>
<td>180</td>
<td>Dental Jurisprudence</td>
<td>Parker</td>
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#### Chemistry
Professor Cromwell, Chairman

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<tr>
<th>Course Number</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>246</td>
<td>Biochemistry</td>
<td>Johnston</td>
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</tbody>
</table>

#### Clinical Dentistry, Special

Clinical Dentistry, Special

Dental Staff

#### Fixed Denture Prosthesis
Associate Professor Lynn, Chairman

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<thead>
<tr>
<th>Course Number</th>
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<tbody>
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#### Microbiology
Professor Georgi, Chairman

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#### Operative Dentistry
Professor Keys, Chairman

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Professor Knapp, Chairman

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Professor Waggener, Chairman

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Professor Webster, Chairman

122. Operating Room Technique
125. Pulp Therapy
134. Oral Surgery
161. Clinical Pulp Therapy
162. Clinical Pulp Therapy
163. Oral Surgery and Hospital Training
165. General Anesthesia
166. General Anesthesia
167. Clinical Oral Surgery
168. Clinical Oral Surgery
173. Maxillo-facial Surgery

Orthodontics
Associate Professor Weinstein, Chairman

131. Orthodontic Technology
132. Orthodontics
137. Orthodontics
176. Clinical Orthodontics

Pedodontics
Professor Kramer, Chairman

135. Public Health Dentistry
136. Pedodontics and Nutrition
138. Clinical Pedodontics
179. Clinical Pedodontics

Periodontics
Associate Professor Bradley, Chairman

127. Periodontology
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130. Periodontology

Pharmacology
Professor Gibson, Chairman

139. Dental Pharmacology
140. Dental Medicine

Prosthodontics
Professor Steinacher, Chairman

119. Complete Denture Prosthesis
121. Removable Partial Denture Prosthesis
143. Prosthodontics Technology
144. Clinical Prosthodontics
145. Clinical Prosthodontics
146. Clinical Prosthodontics

Zoology and Physiology
Professor Dwight D. Miller, Chairman

109. Histology and Embryology
121. Vertebrate Physiology
122. Vertebrate Physiology
UNIVERSITY OF NEBRASKA
CURRICULUM IN DENTAL HYGIENE

The College of Dentistry offers a Certificate in Dental Hygiene as well as the degree of Bachelor of Science in Dental Hygiene. The certificate is given following successful completion of a two-year curriculum in dental hygiene; the B.S. in Dental Hygiene follows completion of the two-year curriculum plus two additional years of prescribed courses in the College of Arts and Sciences.

Requirements for Admission

An applicant must meet all the entrance requirements of the College of Arts and Sciences and must be eligible for admission to the University of Nebraska. A four-year college preparatory course in high school is recommended. This should include:

- English: 3 years
- Mathematics: 3 years
- One foreign language: 2 years
- Biology: 1 year
- Chemistry: 1 year

Applicants to the dental hygiene curriculum are urged to take the dental hygiene aptitude test, which is given at the University of Nebraska in November and February of each academic year. Further information and application forms for this test can be secured from the Department of Dental Hygiene, College of Dentistry.

If possible, the dental hygiene applicant should work for a month or two, possibly in the summer, as an assistant or receptionist in a dental office. This experience will help to confirm the applicant's interest in this field of study and work.

Unless the applicant lives a great distance from Lincoln, a personal interview with the Chairman of the Department of Dental Hygiene will be required before the applicant is admitted to the dental hygiene curriculum. When it is not possible for the applicant to come to Lincoln, an interview with a designated person in the vicinity may be arranged.

Admission Procedure

All prospective applicants, whether they be high school seniors or graduates or transfer students from other colleges, should write to the Director of Admissions, 208 Administration Building, to secure forms for making application to the University itself. The application form for the dental hygiene curriculum can be secured from the Department of Dental Hygiene, College of Dentistry. All completed forms (those for making application both to the University and to the dental hygiene curriculum) should be returned to the Director of Admissions, University of Nebraska.

In the selection of candidates for this curriculum, preference will be given to applicants who have successfully completed some college work. In any group of qualified applicants, priority will be given to residents of the state of Nebraska.

Entering freshmen who are interested in becoming dental hygienists but have not been admitted to the dental hygiene curriculum directly after graduation from high school should indicate their interest in the curriculum on the University application form. This will assure assign-
ment to an adviser who is familiar with the first year course of study recommended for prospective dental hygiene students.

Requirements for the Degree of Bachelor of Science in Dental Hygiene

By using the dental hygiene subjects as a major and by completing all group requirements of the College of Arts and Sciences (except Group C languages) including the requirements of a minor under either Plan A or Plan B (see pages 7 and 8 of the College of Dentistry bulletin), the student can be awarded the degree of Bachelor of Science in Dental Hygiene. The two years of study in dental hygiene must be taken consecutively, but the two additional years in the College of Arts and Sciences can be taken either before or after the two years in dental hygiene. In most instances, however, it is desirable to complete at least one year of general college courses before entering the dental hygiene curriculum. Students electing the degree program will be counseled, individually, throughout the four-year program. Students who wish to earn credits in general college courses at some institution other than the University of Nebraska should write or come to the Department of Dental Hygiene for advice regarding selection of courses.

Expenses for the Course

The fee for the dental hygiene curriculum is $132 per semester for Nebraska residents ($300 per semester for nonresidents). Instruments, uniforms, and laboratory supplies required for the course will amount to approximately $300 for the two-year period. The cost of books and school supplies will average $50 per semester. Room and board in University dormitories currently is $725 per year, but these rates are subject to change.

CURRICULUM IN DENTAL HYGIENE
IN THE
COLLEGE OF DENTISTRY
(68 Semester Hours of Credit)

First Year

First Semester

Chemistry 3—Elementary General Chemistry (3 cr) Staff
Lect 2, lab and quiz 4
Chemical principles: representative elements and their compounds.

Anatomy 25—Elementary Human Anatomy (3 cr) Yowell
Lect 2, lab 3
Fundamentals of gross anatomy with particular study of the head and neck.

English 1—English Composition (3 cr) Staff
Instruction and practice in composition and general expression.

Dental Hygiene 15—Introduction to Dental Hygiene (3 cr) Warner
Lect 3
A survey of the history, development, and current status of the dental hygiene profession, its subject matter and practice characteristics.

Dental Hygiene 23—Oral Physiology and Dental Anatomy (3 cr) Catherman, Keys, Kramer
Lect 2, lab 4
A study of the form and function of the permanent and primary teeth.

Public Health 170c—First Aid (2 cr) Lantz
Principles of accident prevention and emergency first aid for injuries, poisoning, physical conditions needing immediate care while awaiting medical attention. Instruction in methods used in civilian defense and mass disaster. Offers Red Cross Standard and Advanced First Aid Certificates.
Dental Hygiene 11—Dental Assisting (0 cr) Staff
Clinic 6
An introduction to clinical procedures in dentistry.

Second Semester

Zoology and Physiology 10—Elements of Physiology (4 cr) Landolt
Lect 3, lab 3
An elementary survey of the basic functional systems of the human body, the muscular, nervous, receptor, circulatory, respiratory, digestive, excretory, endocrine, and reproductive systems.

Chemistry 5—The Chemistry of Life Processes (4 cr) Doryland
Lect 3, lab and quiz 4. Prereq Chem 1 or 3
A brief survey of organic and biochemistry with emphasis on the chemistry of living tissues and metabolic processes.

English 2—English Composition (3 cr) Staff
English 1, cont'd.

Speech 9—Fundamentals of Oral Communication: Speaking and Listening (3 cr) Staff
Training in basic speech skills, including development of confidence and poise, the communicative speaking manner, bodily control, and vocal expressiveness, with application in speech making, oral reading, and group discussion. Training in appreciative, comprehensional, and critical listening.

Dental Hygiene 46—Dental Prophylaxis (2 cr) Catherman, Warner
Clinic 6 (8 wks)

Second Year

First Semester

Microbiology 103—Introduction to Microbiology (4 cr) Staff
Lect 3, lab 3. Prereq Biol 2 or Bot 2 or Zool&Physiol 2
Principles and applications of microbiology to everyday living. Relationships of bacteria, viruses, and fungi to plants, animals, and man.

Nutrition 104—Introduction to Nutrition (3 cr) Ganshorn, Gardner, Kies, Williams
Essentials of an adequate diet; the effect on the total well-being of an individual and its impact on society.

Sociology 53—Introduction to Sociology (3 cr) Staff
Association and communication, the nature and types of human groups, the basic elements affecting them, collective behavior, the nature and growth of culture, social organization and social institutions.

Denal Hygiene 75—Oral Roentgenology (2 cr) Waggener
Clinic 6 (3 wks)
A study of the construction and function of dental x-ray units, principles of radiation protection, technical procedures for exposing and processing dental x-ray films.

Dental Hygiene 115—Oral Histology (2 cr) Anderson
Lect 2, lab 2
A study of the composition and microscopic anatomy of the teeth and their supporting structures.

Pharmacology 101—Introduction to Pharmacology (3 cr) Staff
Lect 3
A study of the physical and chemical properties, pharmacological action(s), dosage(s), methods of administration, factors that modify the action of drugs, and untoward effects of medicinal agents used in the treatment of disease. Drug legislation and metrology are also considered.

Dental Hygiene 47—Clinical Dental Hygiene (2 cr) Catherman, Warner
Clinic 14
Continuation of previous semester.

Second Semester

Dental Hygiene 116—Oral Pathology (2 cr) Waggener
Lect 2
Introduction to a study of the diseases affecting the oral cavity, particularly the soft tissues. Emphasis upon the role of the dental hygienist in the recognition of abnormal conditions in the mouth.
Dental Hygiene 120—Survey of Dental Specialties (2 cr) Staff
Lect 2, clinic 4
A series of lectures designed to acquaint the dental hygiene student with the subject matter and practice of the various dental specialties. Clinical observations and assisting in the various departmental clinics provide opportunities to observe the application of the theory and principles presented in the lecture portion of the course.

Dental Hygiene 118—Community Dental Health (3 cr) Catherman, Warner
Lect 3, field assignments 3 (8 wks)
A survey of the theory and practice of public health, particularly as it applies to dental health; methods used to determine dental health status in communities and procedures for improving the dental health of the public, procedures in health education in the private dental office and in the community. The role of the private practitioner in the improvement and maintenance of dental health in the community is stressed. Field experiences and projects in schools and other community agencies provide the student with an opportunity to apply learned principles to actual practice.

Dental Hygiene 112—Dental Hygiene Seminar (2 cr) Warner
Lect 2
Discussion of dental practice management and economics, ethics, and jurisprudence, and the effects of social change on the provision of dental health services. Through library assignments in current journals, experience will be gained in reading and reporting the scientific literature.

Dental Hygiene 75—Oral Roentgenology Catherman, Warner
Lab 2
Practice in exposure and processing of dental x-ray films—a continuation from previous semester.

Dental Hygiene 122—Periodontology (1 cr) Bradley and Staff
Lect 1
A brief survey of the nature, causes, and treatment of periodontal diseases with particular emphasis upon the role of the dental hygienist in prevention of diseases of the periodontal structures.

Psychology 70—Elementary Psychology (3 cr) Staff
Fundamental principles of behavior: maturation, learning, motivation, emotion, perception, abilities.

Dental Hygiene 86—Dental Materials and Technics (1 cr) Staff
Lect 1, lab 2
A brief survey, including lectures, demonstrations, and laboratory experience in the composition, uses, preparation and manipulation of materials used in restorative dentistry.

Dental Hygiene 48—Clinical Dental Hygiene (2 cr) Catherman, Warner
Clinic 12
Continuation of previous semester.
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COLLEGES, SCHOOLS, AND DIVISIONS
OF
THE UNIVERSITY OF NEBRASKA

Junior Division
Supervises the orientation, advising, and registration of freshmen.

College of Agriculture and Home Economics
Leading to the degree of Bachelor of Science in Agriculture.
In addition to the resident teaching division, the College of Agriculture is comprised of the Agricultural Experiment Station with headquarters on the Lincoln campus and at outlying stations at North Platte, Scottsbluff, Alliance, Crawford, Mead, and Concord; the Agricultural Extension Service with headquarters in Lincoln, and county or district extension offices at 83 locations in the state; and the University of Nebraska High School of Agriculture at Curtis.

School of Home Economics
Leading to the degree of Bachelor of Science in Home Economics.

College of Arts and Sciences
Leading to the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science.

School of Fine Arts
Leading to the degrees of Bachelor of Music, Bachelor of Fine Arts, Bachelor of Fine Arts in Education, Bachelor of Music in Education, Master of Music—in the appropriate colleges.

School of Journalism
Leading to the degrees of Bachelor of Arts, Bachelor of Science in Agriculture, Bachelor of Science in Business Administration, Bachelor of Arts in Education—in the appropriate colleges—and to a Professional Certificate in Journalism.

College of Business Administration
Leading to the degree of Bachelor of Science in Business Administration.

College of Dentistry
Leading to the degree of Doctor of Dental Surgery.

College of Engineering and Architecture
Leading to the degrees of Bachelor of Science in Agricultural Engineering, Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Mechanical Engineering.
Supervises Nebraska Engineering Experiment Station, Lincoln.

School of Architecture
Leading to the degree of Bachelor of Architecture.

Graduate College

Graduate School of Social Work
Leading to the degree of Master of Social Work.

College of Law
Leading to the degree of Juris Doctor.

College of Medicine
Leading to the degrees of Doctor of Medicine, Bachelor of Science in Medicine, Bachelor of Science in Medical Technology, Bachelor of Science in Radiological Technology, certificate in Medical Technology, and Certificate in Radiologic Technology.

School of Nursing
Leading to the degree of Bachelor of Science in Nursing.

College of Pharmacy
Leading to the degree of Bachelor of Science in Pharmacy.

Teachers College
Leading to the degrees of Bachelor of Science in Education, Bachelor of Arts in Education, Bachelor of Fine Arts in Education, Bachelor of Music in Education, Master of Education, Doctor of Education.
Supervises University High School, Lincoln.

University Extension Division

Separate bulletins or information concerning any college, school, or division can be obtained free of charge by addressing the Registrar, University of Nebraska, Lincoln, Nebraska, 68508.