1963

Bulletin of the College of Dentistry, 1963-1964

University of Nebraska

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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.
college of dentistry
1963-1964
CALENDAR
Academic Year 1963 - 64

First Semester

August 31—Sat.
Sept. 16, 17, 18—Mon., Tues., Wed.
Sept. 18, 19, 20—8:00-11:30 a.m., 1:00-4:00 p.m.
Sept. 23—Mon.
Sept. 23—Mon.
Sept. 30—Mon.
Oct. 4—Fri.
Nov. 9—Sat. noon
Nov. 27-30—Wed. 8:00 a.m. through Sun.
Dec. 20—Fri.
Dec. 21-Jan. 5—Sat. noon through Sun.
Jan. 25—Sat.
Jan. 28-Feb. 5—Tues. through Wed.
Feb. 8—Sat.

Last day for undergraduate applications
Late student preregistration tests and medical exams
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
Seven weeks scholastic reports due
Thanksgiving vacation
Last day to file drops in Registrar’s Office
Christmas vacation
Last day of first semester classes
First semester examinations
First semester commencement

Second Semester

Feb. 5, 6—Wed. and Thurs.
Feb. 6—Thurs.
Feb. 7—Fri.
Feb. 10—Mon.
Feb. 10—Mon.
Feb. 13—Sat.
Feb. 17—Mon.
Feb. 21—Fri.
Mar. 28—Sat. noon
Mar. 28-Apr. 5—Sat. noon through Sun.
April 28—Tues.
May 8—Fri. noon
May 8—Fri.
May 9—Sat.
May 29—Fri.
May 30—Sat.
June 2-10—Tues. through Wed.
June 13—Sat.
June 13—Sat.

Preregistration tests
Medical examinations
Registration
Late fees for undergraduate students begin
Second semester classes begin
Charter Day
Late fees for graduate students begin
Final day on which registrations and payment of fees will be accepted
Seven weeks scholastic reports due
Spring vacation (Easter, March 29)
Honors Convocation
Spring Day, no undergraduate classes
Last day to file drops in Registrar’s Office
Ivy Day, no undergraduate classes
Last day of second semester classes
Memorial Day (legal holiday)
Second semester examinations
Alumni Round-Up Day
June Commencement
ADMINISTRATION

The Board of Regents

Term Expires

B. N. Greenberg, M.D., York ................................................ January 1965
Richard E. Adkins, Osmond ........................................... January 1965
J. Leroy Welsh, Omaha ...................................................... January 1967
Clarence E. Swanson, Lincoln ........................................... January 1967
J. G. Elliott, Scottsbluff ................................................ January 1969
Val Peterson, Hastings ..................................................... January 1969
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.
Michael Shugrue, Ph.D., Assistant to the Chancellor.
Ralph Leonard Ireland, D.D.S., M.S., Dean of the College of Dentistry.
Joseph Soshnik, Ph.D., Vice Chancellor for Business and Finance and Comptroller of the University.
Carl A. Donaldson, M.S., Business Manager of the University.
Floyd Hoover, Ph.D., Registrar.
G. Robert Ross, Ph.D., Dean of the Division of Student Affairs.
Frank M. Hallgren, M.B.A., Associate Dean, Division of Student Affairs.
Helen Snyder, M.A., Associate Dean, Division of Student Affairs.

The Faculty

William D. Ahrens, B.S., D.D.S., Instructor in Diagnosis and Treatment Planning.
Selma B. Anderson, A.B., M.T., (ASCP), M.S., Assistant Professor of Oral Pathology.
Leland D. Arnot, 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.S., M.S., Associate Professor of Periodontics (Chairman of Department).
Karl W. Bruce, B.S., D.D.S., M.S., Instructor in Oral Pathology.
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 Lecturer in Graduate Pedodontics and Orthodontics.
Burdeette L. Gauley, D.D.S., M.S., Associate Professor of Orthodontics.
Carl E. Georgi, B.S., M.S., Ph.D., Professor of Microbiology (Chairman of Department).
Mary C. Gilb, B.S., R.N., M.T., (ASCP), Medical Technologist.
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, and Special Lecturer in Graduate Orthodontics.
Kasey 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 (Chairman of Department).
Bert L. Hooper, D.D.S., Dean Emeritus of the College of Dentistry.
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.
Roberto B. Johnson, B.A., Ph.D., Assistant 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. Director of Clinical Coordination (Chairman of Department).
Jack M. Krodle, B.S., D.D.S., Assistant Professor of Prosthodontics.
William S. Kramer, B.S., D.D.S., M.S., Professor of Pedodontics (Chairman of Department).
Earl L. Lampshire, B.S., D.D.S., M.S., Associate Professor of Pedodontics.
Victor E. Lofgreen, B.S., D.D.S., Associate Professor of Fixed Denture Prosthesis (Chairman of Department).
Benjamin W. McCashland, B.S., Ph.D., Assistant Professor of Physiology.
T. Lawrence McKee, B.S., D.D.S., M.S., Instructor in Orthodontics.
Dwight D. Miller, A.B., Ph.D., Professor of Zoology (Chairman of Department).
Harold B. Miller, Ph.C., B.S., M.D., Instructor in Oral Pathology.
Samuel D. Miller, M.B., M.D., Associate Professor of Anesthesiology.
Thomas C. Moritz, B.S., D.D.S., M.S., Instructor in Clinical Graduate Orthodontics.
Richard Y. Moritz, B.S., M.S., Ph.D., Associate Professor of Microbiology.
Roland F. Mueller, M.D., Director of Dental Clerkship.
Francis D. Murphy, B.S., D.D.S., M.S., Assistant Professor of Orthodontics.
Donald M. Pace, B.S., M.S., Ph.D., Professor of Physiology (Chairman of Department).
Harlan L. Papentuss, A.B., M.D., M.S., Instructor in Oral Pathology.
Cecil F. Parker, A.B., LL.B., Instructor in Dental Jurisprudence.
Eugene F. Powell, A.B., A.M., Ph.D., Associate Professor of Zoology.
Quentin G. Quay, D.D.S., Instructor in Practice Administration.
Vernon W. Rinn, B.S., D.D.S., Associate Professor of Operative Dentistry.
William I. Rotton, D.D.S., Director of Dental Clerkship.
Edward W. Simpson, B.S., M.P.H., Lecturer in Public Health Dentistry.
Ray H. Steinacher, B.S., D.D.S., M.S., Professor of Prosthodontics (Chairman of Department).
Robert M. Stemm, B.S., D.D.S., Assistant Professor of Fixed Denture Prosthesis.
Frank A. Stewart, B.S., M.D., Assistant Professor of Pedodontics.
Lee Stover, A.B., M.S., M.D., Assistant Professor of Internal Medicine.
Robert W. Swan, B.S., D.D.S., M.S., Assistant Professor of Periodontics.
Frank H. Tanner, B.S., M.D., Associate Professor of Oral Pathology.
John S. Thompson, B.A., M.D., Instructor in Pedodontics.
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). Co-ordinator of Cancer Instruction.
E. Roger Washburn, B.S., M.S., Ph.D., Professor of Chemistry (Chairman of Department).
W. Wallace Webster, B.S., D.D.S., Professor of Oral Surgery (Chairman of Department); Director, Dental Intern Program.
Sam Weinstein, B.S., D.D.S., M.S., Associate Professor of Orthodontics; Director of Graduate Orthodontics.
Elvin G. Wilkinson, B.S., D.D.S., M.S., Assistant Professor of Pedodontics.
Hoyt Yowell, B.S., M.S., Instructor in Human Anatomy.
Guest Lecturers


Standing Committees

Executive Committee—Dr. Ireland, Chairman; Dr. Kramer, Secretary
Drs. Bradley, Steinacher, Lynn, Keys, Knapp, Webster, Waggener

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

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

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

Library—Dr. McCabe, Chairman; Miss Anderson, Secretary
Dr. James

Student Loans & Scholarships—Dr. Stemm, Chairman; Dr. Rinne, Miss Anderson

Public Relations—Dr. McCabe, Chairman, Drs. Webster, Ahrens

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

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

Postgraduate Education—Dr. Waggener, Chairman; Drs. Ireland, Kramer

Predental Advisers—Dr. Steinacher; Assistant Adviser—Dr. Knodle

Director of Aptitude Tests—Dr. Keys; Assistant—Dr. McCabe
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.
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 the Registrar 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.

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

2-Year Predental Course
(College of Arts and Sciences)

<table>
<thead>
<tr>
<th>First Year</th>
<th>Hours</th>
<th>Second Year</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
<td>Second Semester</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>5</td>
<td>Chemistry 6 or 24</td>
<td>4-5</td>
</tr>
<tr>
<td>Zoology 1</td>
<td>3</td>
<td>Zoology 2</td>
<td>3</td>
</tr>
<tr>
<td>English 3</td>
<td>3</td>
<td>English 4</td>
<td>3</td>
</tr>
<tr>
<td>Military Science</td>
<td>1</td>
<td>Military Science</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>15-16</td>
<td></td>
<td></td>
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<tr>
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<tr>
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<td>First Year</td>
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<td></td>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry 131</td>
<td>4</td>
<td>Physics 2</td>
</tr>
<tr>
<td></td>
<td>Physics 1</td>
<td>5</td>
<td>Military Science</td>
</tr>
<tr>
<td></td>
<td>Military Science</td>
<td>1</td>
<td>Electives</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

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

B. Humanities—Fine Arts, Literature, Philosophy

*English B, 1 and 2 may be substituted for 3 and 4.
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 course may be used to fulfill both the Group B and the Group C requirements.

C. Languages, Classical and Modern

<table>
<thead>
<tr>
<th>High School Language</th>
<th>Group Requirement</th>
<th>Combined Group and Entrance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 semester or none</td>
<td>16 hours in one language</td>
<td>18 hours in one language</td>
</tr>
<tr>
<td>2 semesters</td>
<td>11 hours in same language</td>
<td>12 hours in same language</td>
</tr>
<tr>
<td>3 semesters</td>
<td>8 hours in same language</td>
<td>6 hours in same language</td>
</tr>
<tr>
<td>4 or 5 semesters</td>
<td>3 hours in same language</td>
<td>3 hours in same language</td>
</tr>
<tr>
<td>6 semesters or more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A student who has entered the college with an entrance deficiency in language may remove it and meet the group requirement in either of two ways: (1) by presenting 2 hours in addition to the basic requirement of 16 hours or (2) by completing French 14, German 4, Spanish 54, or Latin 6 with a grade of 6 or above. In (2) the college accepts the grade of 6 in the fourth-semester course in place of the additional hours.

A transfer student with 11 or 12 semester hours of accepted credit in French, German, Latin, or Spanish has two choices: (1) to enroll in French 13, German 3, Latin 5 or Spanish 53 and then to continue with a fourth-semester course; (2) by consultation with the chairman of the department to enroll in French 14, German 4, Latin 6 or Spanish 54. If the student follows the second plan and makes a grade of 6 or better, the language requirement will have been fulfilled.

The following courses may not be used to meet this requirement: Classics 31, 73, 74, 75, 115, 116, 117, 281, 282, 283; Germanic Language 11, 12, 31, 32; Romance Language 1, 2, 5, 6, 21, 22, 61, 62; Russian 1, 2.

Every candidate for a degree must present a minimum of 3 college semester hours in a foreign language regardless of semester hours completed in high school. A literature course presented in fulfillment of this requirement may not count in the fulfillment of the group requirement in humanities.

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

D. Logic or Mathematics

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.

Students presenting two semesters of chemistry from high school may fulfill this requirement by taking Chemistry 3 and 4 (6 hours).

The following courses may not be used to satisfy the requirement: Zoology and Physiology 141 and 143 (except for students majoring in journalism or social welfare).

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, 168, 169, 170 may be used; preferably 11 or 12 should be the first course. In anthropology, psychology, sociology, economics, and political science, the beginning course and any other course not excluded above constitutes a 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, 12 hours beyond Chemistry 2 or 4.
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—6 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, 250, or 282; and 251, 252, 263, or 284.
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, or 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, 6 hours beyond Chemistry 2 or 4; 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, 292, 283; mathematics, Mathematics 115; microbiology, 6 hours beyond Microbiology 111; music, 12 hours (4 hours of consecutive courses in minor applied classes, 2 hours of related ensemble courses, and 71 and 72); 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; 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 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.

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.

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 $425 per semester, which covers the major school expenses for that period.

Each nonresident student is required to pay, in addition, a nonresident fee of $120 per semester.

A fee of $15 per student is charged for enrollment in each Summer Session. (No additional nonresident fee is charged.)

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 $425 semester fee:

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

* 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.

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 the 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. 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.

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

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.

Value: Three or four scholarships or fellowships at $1,000 each.

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

Qualifications: Sophomore, junior and senior students in the College of Dentistry. Awards made on basis of high scholarship.

Value: $100 each

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 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:

* Funds in the custody of the University of Nebraska Foundation.
Those under the administration of the General Student Loan Committee:

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 these loans can be obtained from the office of the Dean or from the chairman of the College of Dentistry Student Loan Committee.
PROFESSIONAL COURSE IN THE COLLEGE OF DENTISTRY

PROFESSIONAL COURSE—133 SEMESTER HOURS OF CREDIT

First Year

First Semester

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

**Dental Orientation and Ethics 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. Lect. 1. 0 cr. Ireland, Staff.

**Fixed Denture Prosthesis 31. Dental Materials.**—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. Lect. 2, lab. 3. 2 cr. Stemm.

**Operative Dentistry 11. Oral Physiology and Dental Anatomy.**—Functions of the oral structures. The anatomy of the primary and the permanent teeth is studied and their forms carved. Lect. 1, lab. 3, 2 cr. Keys.

**Zoology and Physiology 105. Human Anatomy for Dental Students.**—Gross anatomy. The skeleton; dissections 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. **Prerequisite:** Zool. and Physiol. 1 and 2 or equivalent. Lect. 2, lab. 8. 4 cr. Yowell, Anderson.

**Fixed Denture Prosthesis 32. Dental Material.**—FDP 31 cont’d. Lab. 1, lab. 3, 1 cr. Stemm.


**Prosthodontics 34. Complete Denture Prosthesis.**—A lecture and laboratory course in the materials and technical procedures of complete denture construction. Lect. 2, lab. 8, 4 cr. Steinacher, Hayes.

**Zoology and Physiology 106. Human Anatomy for Dental Students.**—Zool. and Physiol. 105 cont’d. Dissection of thorax, axilla, brachial plexus; certain joints; deep parts of head and neck; orbit and eye; ear; and upper extremity. General study of abdomen and lower extremity. **Prerequisite:** Zool. and Physiol. 1, 2 or equivalent. 5 cr. Powell, Anderson.

Second Semester

**Dental Literature and History 2.**—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. Lect. 1. 1 cr. Arnot.

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

**Microbiology 111. General Microbiology.**—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. **Prerequisite:** 1 yr. Chemistry and 1 yr. Biological Science. Lect. 3, lab. 6, 3 cr. I or II. Georgi, Staff.


**Oral Pathology 61. Oral Roentgenographic Techniques.**—Study of the 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 the dental arches for the purpose of diagnostic interpretation of the exposed films. Lect. 1, lab. 3. 1 cr. Waggener.

Periodontology 63. Preventive Periodontology. 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 techniques of oral examination and oral prophylaxis. Lect. 1. 1 cr. Bradley, Swan.

Zoology and Physiology 151. Mammalian Physiology. Functions of the various organ systems in the mammal as compared to other vertebrates with special emphasis on those of man. This course will cover chiefly the supporting tissues, muscles, nerves, central and autonomic nervous systems, and special senses. Lect. 2, lab. 3. 3 cr. McCashland.


Second Semester


Oral Pathology 68. General Pathology. A study of the 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. Lect. 2, lab. 3. 3 cr. Tanner, H. Miller, Papenfuss.

Zoology and Physiology 152. Mammalian Physiology. Zool. and Physiol. 151 cont’d. Functions of the various organ systems in the mammal as compared to other vertebrates with special emphasis on those of man. This course will cover chiefly the supporting tissues, muscles, nerves, central and autonomic nervous systems, and special senses. Lect. 2, lab. 3. 3 cr. McCashland.

Third Year

First Semester


Oral Diagnosis 113. Diagnosis and Treatment Planning. Instructional areas include lectures and clinical periods devoted to the use and value of supportive diagnostic material and methods, and the 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. Lect. 1, Clinic 2. 1 cr. Knapp, Ahrens.

Periodontology 127. Theoretical Periodontology. A study of the 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. Lect. 1, Clinic 2. 1 cr. Bradley, Swan.

Orthodontics 131. Orthodontic Technology. The manipulation of various types of orthodontic materials, including construction of orthodontic appliances, taking impressions, and making study casts. Lect. 1, lab. 3. 2 cr. Holland, McKee.

Pedodontics 133. Public Health Dentistry. Lectures include 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 caries control, education, economics, professional and lay responsibilities. Lect. 1. 1 cr. Wegener, Assistants.

Pedodontics 135. Pedodontics and Nutrition.—The course consists of a 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 will be given to cover the current literature on the subject discussed. Lect. 3. 3 cr. Kramer.

Pharmacology 139. Dental Pharmacology.—Didactic study of the origin, preparations, actions, uses, and toxicology of selected drugs. Prerequisite: Physiol. 152. Lect. 2, lab. 3. 3 cr. Gibson.


Prosthodontics 143. Clinical Prosthodontics.—Clinic 3. 1 cr. Steinacher, Knodle.

Second Semester

Fixed Denture Prosthesis 146. Clinical Fixed Partial Dentures.—FDP 145 cont’d. Clinic 3. 1 cr. Lynn, Stemmm.


Oral Diagnosis 114. Diagnosis and Treatment Planning.—Oral Diagnosis 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. Lect. 1, Clinic 2. 1 cr. Knapp, Ahrens.

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


Periodontology 128. Periodontal Therapy.—Continuation of Perio. 127. Students have an opportunity to make practical application in the infirmary of the fundamentals of diagnosis and treatment of periodontal disease. Lect. 1, Clinic 2. 1 cr. Bradley, Swan.

Oral Surgery 122. Operating Room Technique.—A course on the fundamental principles and methods of operating room technic and armamentarium, and set-up for oral surgery; care and sterilization of surgical instruments and supplies. Lect. 1. 1 cr. Atkinson.


Orthodontics 132. Orthodontics.—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. Lect. 1, Clinic 3. 2 cr. Holland, McKee.

Pedodontics 136. Clinical Pedodontics.—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. Clinic 3. 1 cr. Kramer, Best, Wilkinson, Burton, Reichenbach.

Pharmacology 140. Dental Medicine.—A study of the 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 dis-
infection of materials and instruments used in dentistry; prescription writing. Lect.
2. 2 cr. Gibson.

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

Summer Session

Clinical Practice.—The summer session offers instruction in all phases of clinical
practice and it is intended for those students who desire to augment their pro-
cficiency 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 and Clinic credit, ar-
anged. Staff.

Fourth Year

First Semester

Fixed Denture Prosthesis 187. Clinical Fixed Partial Dentures.—Lectures include a
basic review of crown and bridge technology, more complex fixed partial denture
planning, occlusal revision and a review of new or current technics. Lect. 1. Clinic 2.
1 cr. Lynn, Stemm.

Operative Dentistry 153. Operative Dentistry.—Instruction and demonstration in
gold foil restorations. Clinic 2. 1 cr. Deines.

The student is permitted to work with less supervision and is assigned the more

Oral Diagnosis 159. Oral Diagnosis and Treatment Planning.—The student is con-
fronted with many ordinary and complex problems in the evaluation of dental con-
ditions and diseases as they appear in new patient groups. Approaches to the pre-
liminary and final management of these problems in all areas of dentistry are ex-
plored, evaluated, and programmed. The relationship to both physical and dental
health is carefully considered. Clinic 2. 1 cr. Knapp, Ahrens, and Staff.

Oral Pathology 169. Oral Medicine.—Study of the 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. Lect. 1, inf. 2. 1
cr. Waggener and Staff.

Oral Pathology 191. Neoplastic Diseases.—A course designed to make the student
aware of the responsibility of the dentist for the early diagnosis of malignant dis-
eases of the oral cavity and adjacent structures. Lect. 1, tumor clinic 1. 1 cr. Wag-
gener and Staff.

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

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

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

Oral Surgery 173. Maxillo-facial Surgery.—A course dealing with maxillo-facial
problems that are of interest to the general dentist. Lect. 1. 1 cr. Webster, Singer,
Montgomery.

Orthodontics 175.—Orthodontics 132 continued. Lect. 1. Clinic 2. 2 cr. Holland,
McKee.

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

Periodontics 125. Clinical Periodontics.—Clinical management of periodontal di-
sease. The student will be instructed in some of the more advanced therapeutic pro-
cedures used in the treatment of periodontal disease. Clinic 2. 1 cr. Bradley, Swan,
Lofgreen.


Oral Surgery 181. Clinical Pulp Therapy.—Students observe and gain experience
in the diagnosis and treatment of diseases of the pulp and periapical region, includ-
ing removal of the pulp, treatment of and filling of the pulp canal and apicoectomies.
Clinic 1. 1 cr. James.
Second Semester

Practice Administration 150.—Professional ethics, business methods, dental records, case presentation, and general management of dental practice. Lect. 1. 1 cr. Quay.

Dental Jurisprudence 190.—A course designed to furnish legal information which is essential and beneficial to the practicing dentist. Professional ethics is included. Lect. 1. 1 cr. Parker.

Fixed Denture Prosthesis 188. Clinical Fixed Partial Denture Prosthesis.—Clinic 2. 1 cr. Lynn, Stemm.

Operative Dentistry 156. Clinical Operative Dentistry.—Op. Dent. 155 cont’d. The student is expected to rely on his own judgment and is permitted to work with less supervision. Clinic 6. 2 cr. Keys, Rinne, McCabe, Pilhal.

Oral Diagnosis 180. Oral Diagnosis and Treatment Planning.—Oral Diagnosis 159 cont’d. Clinic 2. 1 cr. Knapp, Ahrens, Staff.

Oral Pathology 170. Oral Medicine.—Oral Path. 169 cont’d. Lect. 1, Clinic 2. 1 cr. Waggener and Staff.

Oral Pathology 192. Neoplastic Diseases.—Oral Path. 191 cont’d. Lect. 1, Tumor Clinic 1. 1 cr. Waggener and Staff.


Orthodontics 176. Clinical Orthodontics.—The 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. Seminar and Clinic 3. 2 cr. Holland, McKee.

Periodontics 130. Clinical Periodontics.—A continuation of Periodontics 129 with emphasis on the more complicated periodontal involvement. Clinic 2. 1 cr. Bradley, Swan, Lofgreen.

Prosthodontics 184. Prosthodontics.—Course includes a 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. Lect. 1, Clinic 2. 1 cr. Steinacher, Knodle.

COURSES OF INSTRUCTION

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

Non-Departmental Courses
(directed by the Dean)
1. Dental Orientation and Ethics ........................................ Ireland, Staff
2. Dental Literature and History ........................................ Arnot
150. Practice Administration ........................................... Quay
190. Dental Jurisprudence .............................................. Parker

Chemistry
Professor Washburn, Chairman
246. Biochemistry ......................................................... Johnston

Clinical Dentistry, Special
Clinical Dentistry, Special ............................................ Dental Staff

Fixed Denture Prosthesis
Associate Professor Lynn, Chairman
31. Dental Materials ....................................................... Stemm
32. Dental Materials ....................................................... Stemm
73. Dental Ceramics ....................................................... Lynn
74. Fixed Partial Denture Prosthesis ................................ Lynn, Stemm
145. Clinical Fixed Partial Dentures ................................ Lynn, Stemm
146. Clinical Fixed Partial Dentures ................................ Lynn, Stemm
187. Clinical Fixed Partial Dentures ................................ Lynn, Stemm
188. Clinical Fixed Partial Dentures ................................ Lynn, Stemm

Microbiology
Professor Georgi, Chairman
111. General Microbiology ............................................... Georgi, Staff

Operative Dentistry
Professor Keys, Chairman
11. Oral Physiology and Dental Anatomy ................................ Keys
12. Oral Physiology and Dental Anatomy ................................ Keys, Rinne, Kramer
51. Operative Technology ................................................... Rinne, McCabe
52. Operative Technology, Local Anesthesia, Clinical Dentistry . Rinne, Bradley, McCabe, Plahal
117. Operative Technology and Clinical Dentistry ................ Keys, Rinne, McCabe, Plahal
118. Operative Technology and Clinical Dentistry ................ Keys, Rinne, McCabe, Plahal
153. Operative Dentistry ................................................... Deline
155. Clinical Operative Dentistry ........................................ Keys, Rinne, McCabe, Plahal
156. Clinical Operative Dentistry ........................................ Keys, Rinne, McCabe, Plahal

Oral Diagnosis and Treatment Planning
Professor Knapp, Chairman
113. Diagnosis and Treatment Planning .............................. Knapp, Ahrens
114. Diagnosis and Treatment Planning .............................. Knapp, Ahrens
153. Clinical Diagnosis and Treatment Planning .................. Knapp, Ahrens, Staff
155. Clinical Diagnosis and Treatment Planning .................. Knapp, Ahrens, Staff

Oral Pathology
Professor Waggener, Chairman
20. Oral Histology ............................................................ Anderson
61. Roentgenology ............................................................ Waggener
62. Roentgenology ............................................................ Waggener
66. Applied Anatomy of Head and Neck .............................. Anderson
68. General Pathology ........................................................ Tanner, Miller, Papenfus
COURSES OF INSTRUCTION 25

124. Oral Pathology .......................................................... Waggener, Anderson
129. Oral Medicine .......................................................... Waggener and Staff
170. Oral Medicine .......................................................... Waggener and Staff
191. Neoplastic Diseases .................................................... Waggeneer and Staff
192. Neoplastic Diseases .................................................... Waggeneer and Staff

Oral Surgery

Professor Webster, Chairman

122. Operating Room Technic ................................................. Atkinson
126. Pulp Therapy .................................................................... James
134. Oral Surgery ................................................................... Kleitsch
162. Clinical Pulp Therapy ...................................................... James
163. Oral Surgery and Hospital Training .................................. Webster, Kleitsch, Stover
164. Oral Surgery and Hospital Training .................................. Webster, Kleitsch, Stover
165. General Anesthesia .......................................................... Miller
166. General Anesthesia .......................................................... Miller
167. Clinical Oral Surgery ....................................................... Webster, Kleitsch
168. Clinical Oral Surgery ....................................................... Webster, Kleitsch
173. Maxillo-facial Surgery ..................................................... Webster, Singer, Montgomery

Orthodontics

Assistant Professor Holland, Chairman

131. Orthodontic Technology ................................................ Holland, McKee
132. Orthodontics ................................................................... Holland, McKee
175. Orthodontics ................................................................... Holland, McKee
176. Clinical Orthodontics ...................................................... Holland, McKee

Pedodontics

Professor Kramer, Chairman

133. Public Health Dentistry .................................................. Wegener, Assistants
135. Pedodontics and Nutrition ................................................ Kramer
136. Clinical Pedodontics ........................................................ Kramer, Best, Wilkinson, Burton, Reichenbach
179. Clinical Pedodontics ........................................................ Kramer, Best, Wilkinson, Burton, Reichenbach

Periodontics

Associate Professor Bradley, Chairman

63. Periodontology ..................................................................... Bradley, Swan
127. Periodontology .................................................................. Bradley, Swan
128. Periodontology .................................................................. Bradley, Swan
129. Periodontology .................................................................. Bradley, Swan, Lofgreen
130. Periodontology .................................................................. Bradley, Swan, Lofgreen

Pharmacology

Professor Gibson, Chairman

139. Dental Pharmacology ..................................................... Gibson
140. Dental Medicine ............................................................. Gibson

Prosthodontics

Professor Steinacher, Chairman

34. Complete Denture Prosthesis ............................................. Steinacher, Hayes
71. Removable Partial Denture Prosthesis ................................. Steinacher, Hayes
141. Prosthodontics Technology ................................................ Steinacher, Knodle
143. Clinical Prosthodontics ..................................................... Steinacher, Knodle
144. Clinical Prosthodontics ..................................................... Steinacher, Knodle
183. Clinical Prosthodontics ..................................................... Steinacher, Knodle
184. Prosthodontics ................................................................. Steinacher, Knodle

Zoology and Physiology

Professor Dwight D. Miller, Chairman

105. Human Anatomy ............................................................. Yowell, Anderson
106. Human Anatomy ............................................................. Yowell, Anderson
109. Histology and Embryology ................................................ Powell, Anderson
131. Mammalian Physiology ..................................................... McCashland
132. Mammalian Physiology ..................................................... McCashland
COLLEGES, SCHOOLS, AND DIVISIONS
OF
THE UNIVERSITY OF NEBRASKA

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

College of Agriculture
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, Concord, and Union; 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 degree of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science.

School of Fine Arts
Leading to the degrees of Bachelor of Fine Arts, Bachelor of Music, Bachelor of 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 Architecture, 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; and the professional degrees of Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Mechanical Engineer, and Architect.
Supervises Nebraska Engineering Experiment Station, Lincoln.

Graduate College

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

College of Law
Leading to the degrees of Bachelor of Science in Law and Bachelor of Laws.

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 Technic.

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 Fine Arts in Education, Bachelor of Music in Education, Master of Education, Doctor of Education.
Supervises University High School, Lincoln.

Summer Sessions

University Extension Division

Separate bulletins or information concerning any college, school, or division may be obtained free of charge by addressing the Registrar, University of Nebraska, Lincoln 8, Nebraska
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