

TWENTY-THIRD YEAR.

ANNUAL ANNOUNCEMENT

OF THE

DENTAL SCHOOL

(BOSTON)

OF

HARVARD UNIVERSITY

FOR THE YEAR

1890-91.

CAMBRIDGE:

PUBLISHED BY THE UNIVERSITY.

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## CALENDAR.

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*The meetings of the PRESIDENT AND FELLOWS are held on the second and on the last Monday of every month.*

1890.

<i>Sept. 25, Thursday.</i>	<b>Academic Year begins</b> in all departments of the University.
<i>Oct. 8, Wednesday.</i>	Stated Meeting of the Board of Overseers.
<i>Oct. 15, Wednesday.</i>	Stated Meeting of the University Council.
<i>Nov. 27, Thursday.</i>	Thanksgiving day; a holiday.
<i>Dec. 1, Monday.</i>	Last day for receiving applications for aid from the Loan Fund.
<i>Dec. 17, Wednesday.</i>	Stated Meeting of the University Council.

RECESS FROM DEC. 23, 1890, TO JAN. 2, 1891, INCLUSIVE.

1891.

<i>Jan. 14, Wednesday.</i>	Stated Meeting of the Board of Overseers.
<i>Jan. 29, Thursday.</i>	Second half-year begins in the Medical School.
<i>Feb. 9, Monday.</i>	<b>Second half-year begins</b> (except in the Medical School).
<i>Feb. 18, Wednesday.</i>	Stated Meeting of the University Council.
<i>Feb. 22, Sunday.</i>	Washington's Birthday; a holiday.
<i>March 31, Tuesday.</i>	Last day for receiving applications for all Graduate Fellowships and Scholarships, and for College Scholarships to be assigned to Graduate Students.
<i>March 31, Tuesday.</i>	Last day for re-engaging College Rooms for 1891-92.
<i>April 1, Wednesday.</i>	Last day for receiving applications of candidates for Second-Year Honors.

RECESS FROM THE WEDNESDAY BEFORE FAST DAY TO THE FOLLOWING TUESDAY INCLUSIVE.

<i>April 1, Wednesday.</i>	Last day for receiving dissertations for the Boylston Medical Prizes.
<i>April 8, Wednesday.</i>	Stated Meeting of the Board of Overseers.
<i>April 29, Wednesday.</i>	Last day for receiving names of competitors for the Boylston Prizes.

- April 30, Thursday.* Applications from Graduate Students for admission to examination for any degree should be made before this date. See p. 218.
- May 1, Friday.* Last day for receiving applications for Price Greenleaf Aid for 1891-92.
- May 1, Friday.* Last day for receiving dissertations for the Toppan, Dante, Sargent, and Sumner Prizes.
- May 1, Friday.* Last day for receiving theses of Candidates for the degree of Ph.D. or S.D. See p. 222.
- May 1, Friday.* Last day for receiving applications of Professional Students who wish to be candidates for the degree of A.M. with a professional degree. See p. 221.
- May 2, Saturday.* Last day for receiving applications for College Rooms for 1891-92.
- May 2, Saturday.* Assignment of College Rooms for 1891-92.
- May 13, Wednesday.* Stated Meeting of the University Council.
- May 14, Thursday.* Speaking for the Boylston Prizes.
- May 27, Wednesday.* Last day for receiving applications for College Scholarships, and for aid from the Beneficiary Fund.
- May 30, Saturday.* Memorial Day; a holiday.
- June 2, Tuesday.* Examinations in the Medical School begin.
- June 8, Monday.* Examinations in the Dental School begin.
- June 18, Thursday.* Stated Meeting of the University Council.
- June 19, Friday.* Seniors' Class Day.
- June 23, 25-27, Tuesday to Saturday.* Examinations for admission to Harvard College, and to the Lawrence Scientific School.
- June 24, Wednesday.* **Commencement.** Stated Meeting of the Board of Overseers.

SUMMER VACATION OF FOURTEEN WEEKS, FROM COMMENCEMENT DAY TO OCTOBER 1.

- June 25, Thursday.* Examinations for admission to the Law and Medical Schools.
- June 29, Monday.* Summer courses in Field Engineering and Physical Training open.
- July 1, Wednesday.* Summer course in Botany opens.
- July 6, Monday.* Summer courses in Chemistry, German, French, and Geology open.

<i>July 8, Wednesday.</i>	Summer course in Physics opens.
<i>Sept. 24-26, 28, Thursday to Monday.</i>	Examinations for admission to Harvard College, and to the Lawrence Scientific School.
<i>Sept. 28, Monday.</i>	Examination for admission to the Medical School.
<i>Sept. 28, Monday.</i>	Examinations in the Dental School begin.
<i>Sept. 28, Monday.</i>	Examination for admission to the Dental School.
<i>Sept. 28, Monday.</i>	Examinations in the Medical School begin.
<i>Sept. 30, Wednesday.</i>	Annual Meeting of the Board of Overseers.
<i>Oct. 1, Thursday.</i>	<b>Academic Year begins</b> in all departments of the University.
<i>Oct. 1, Thursday.</i>	Examination for admission to the Law School.
<i>Oct. 1, 2, Thursday and Friday.</i>	Examination for admission to advanced standing in the Law School.
<i>Oct. 14, Wednesday.</i>	Stated Meeting of the Board of Overseers.
<i>Oct. 21, Wednesday.</i>	Stated Meeting of the University Council.
<i>Oct. 31, Saturday.</i>	Last day for receiving applications of Candidates for Final Honors in 1892. See p. 161.
<i>Oct. 31, Saturday.</i>	Last day for receiving dissertations for the Bowdoin and Chauncey Wright Prizes.
<i>Oct. 31, Saturday.</i>	Last day for receiving applications for the Bright and Bigelow Scholarships.
<i>Dec. 1, Tuesday.</i>	Last day for receiving applications for aid from the Loan Fund.

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### ABBREVIATIONS.

C. College House.	H'y. Holworthy Hall.
D. Divinity Hall.	M. Matthews Hall.
D. H. Divinity House.	S. Stoughton Hall.
F. Foxcroft House.	T. Thayer Hall.
G. Grays Hall.	W. Weld Hall.
H. Hollis Hall.	W. H. Walter Hastings Hall.
H'ke. Holyoke House.	

NOTE. — Dormitories within the College grounds are known as Halls; those outside the College grounds, but owned by the University, are called Houses; while others, the property of private owners, are called Blocks or Buildings.

1890.							1891.													
<b>JULY.</b>							<b>JANUARY.</b>							<b>JULY.</b>						
Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa	Su	Mo	Tu	W	Th	Fr	Sa
--	--	1	2	3	4	5	--	--	--	--	1	2	3	--	--	--	1	2	3	4
6	7	8	9	10	11	12	4	5	6	7	8	9	10	5	6	7	8	9	10	11
13	14	15	16	17	18	19	11	12	13	14	15	16	17	12	13	14	15	16	17	18
20	21	22	23	24	25	26	18	19	20	21	22	23	24	19	20	21	22	23	24	25
27	28	29	30	31	--	--	25	26	27	28	29	30	31	26	27	28	29	30	31	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>AUGUST.</b>							<b>FEBRUARY.</b>							<b>AUGUST.</b>						
--	--	--	--	--	1	2	1	2	3	4	5	6	7	--	--	--	--	--	--	1
3	4	5	6	7	8	9	8	9	10	11	12	13	14	2	3	4	5	6	7	8
10	11	12	13	14	15	16	15	16	17	18	19	20	21	9	10	11	12	13	14	15
17	18	19	20	21	22	23	22	23	24	25	26	27	28	16	17	18	19	20	21	22
24	25	26	27	28	29	30	--	--	--	--	--	--	--	23	24	25	26	27	28	29
31	--	--	--	--	--	--	--	--	--	--	--	--	--	30	31	--	--	--	--	--
<b>SEPTEMBER.</b>							<b>MARCH.</b>							<b>SEPTEMBER.</b>						
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7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26
28	29	30	--	--	--	--	29	30	31	--	--	--	--	27	28	29	30	--	--	--
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<b>OCTOBER.</b>							<b>APRIL.</b>							<b>OCTOBER.</b>						
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5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24
26	27	28	29	30	31	--	26	27	28	29	30	--	--	25	26	27	28	29	30	31
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<b>NOVEMBER.</b>							<b>MAY.</b>							<b>NOVEMBER.</b>						
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2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14
9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21
16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28
23	24	25	26	27	28	29	24	25	26	27	28	29	30	29	30	--	--	--	--	--
30	--	--	--	--	--	--	31	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>DECEMBER.</b>							<b>JUNE.</b>							<b>DECEMBER.</b>						
--	1	2	3	4	5	6	--	1	2	3	4	5	6	--	--	1	2	3	4	5
7	8	9	10	11	12	13	7	8	9	10	11	12	13	6	7	8	9	10	11	12
14	15	16	17	18	19	20	14	15	16	17	18	19	20	13	14	15	16	17	18	19
21	22	23	24	25	26	27	21	22	23	24	25	26	27	20	21	22	23	24	25	26
28	29	30	31	--	--	--	28	29	30	--	--	--	--	27	28	29	30	31	--	--
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## BOSTON.

## FACULTY.

CHARLES W. ELIOT, LL.D., *President.*

THOMAS H. CHANDLER, D.M.D., *Dean, and Professor of Mechanical Dentistry.*

DAVID W. CHEEVER, M.D., *Professor of Surgery.*

HENRY P. BOWDITCH, M.D., *Professor of Physiology.*

THOMAS DWIGHT, M.D., LL.D., *Professor of Anatomy.*

THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry.*

CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology.*

WILLIAM B. HILLS, M.D., *Associate Professor of Chemistry.*

EUGENE H. SMITH, D.M.D., *Instructor in Orthodontia.*

EDWARD C. BRIGGS, M.D., D.M.D., *Assistant Professor of Dental Materia Medica and Therapeutics.*

JERE E. STANTON, M.D., D.M.D., *Instructor in Oral Anatomy and Physiology.*

## OTHER INSTRUCTORS.

CECIL P. WILSON, D.M.D., *Clinical Lecturer in Operative Dentistry.*

FOREST G. EDDY, D.M.D., *Instructor in Operative Dentistry.*

ALLSTON G. BQUVÉ, D.M.D., *Instructor in Operative Dentistry.*

VIRGIL C. POND, D.M.D., *Instructor in Operative Dentistry.*

GEORGE H. MONKS, M.D., *Instructor in Surgical Pathology.*

GEORGE L. WALTON, M.D., *Instructor in Neurology.*

FREDERIC E. BANFIELD, D.M.D., *Instructor in Operative Dentistry.*

WILLIAM P. COOKE, D.M.D., *Clinical Lecturer in Operative Dentistry.*

WILLIAM H. POTTER, D.M.D., *Clinical Lecturer in Operative Dentistry.*

DWIGHT M. CLAPP, D.M.D., *Clinical Lecturer in Operative Dentistry.*

EDWARD E. HOPKINS, D.M.D., *Instructor in Crown and Bridge Work.*

CHARLES H. TAFT, D.M.D., *Instructor in Operative Dentistry.*

HENRY M. CLIFFORD, D.M.D., *Demonstrator of Operative Dentistry.*

CHARLES P. WORCESTER, M.D., *Instructor in Dental Chemistry.*

WILLIAM F. GAY, D.M.D., *Assistant Demonstrator of Operative Dentistry.*

PATRICK W. MORIARTY, D.M.D., *Demonstrator of Mechanical Dentistry.*

EDWIN H. DIXON, D.M.D., *Assistant Demonstrator of Operative Dentistry.*

CHARLES E. PERKINS, D.M.D., *Assistant Demonstrator of Operative Dentistry.*

## STUDENTS.

## THIRD YEAR.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Barnay, Karl Ludwig,	<i>Berlin, Germany,</i>	14 Harwich St.
Boitel, Paul,	<i>Neuchâtel, Switzerland,</i>	Appleton St., Cambridge.
Brouillet, Georges Antoine,	<i>Paris, France,</i>	325 Columbus Ave.
Curtice, Willard Eben,	<i>Allston,</i>	Allston.
Davenport, Kirk Addison,	<i>Union, N. Y.</i>	301 Columbus Ave.
Goldsmith, Adin Albert,	<i>Chester, N. H.</i>	301 Columbus Ave.
Hadley, Amos Irving,	<i>New Bedford,</i>	357 Columbus Ave.
Holden, George Meads,	<i>Lowell,</i>	Middlesex Village, Lowell.
Isawa, Shimpei Nobutsune,	<i>Tokio, Japan,</i>	67 Pinckney St.
Martin, George, D.D.S. ( <i>Univ. of California</i> ),	<i>Oakland, Cal.</i>	312 Columbus Ave.
Noble, Clarence Moore,	<i>Coaticook, Canada,</i>	14 Hancock St.
Owen, Hugh,	<i>Auckland, New Zealand,</i>	58 Pinckney St.
Paul, Joseph Totten,	<i>Boston,</i>	45 Pinckney St.
Peach, Henry Robinson,	<i>Marblehead,</i>	79 Lafayette St., Marblehead.
Perry, George Barnum,	<i>Chicago, Ill.</i>	6 Yarmouth St.
Sharp, William Tuller, D.D.S. ( <i>Univ. of California</i> ),	<i>Sacramento, Cal.</i>	312 Columbus Ave.
Woodcock, Fred Homer,	<i>Worcester,</i>	69 Dartmouth St.

## SECOND YEAR.

Burnham, Allen Stanley,	<i>Gloucester,</i>	Gloucester.
Chase, Charles Edward Bugbee,	<i>Warren, Me.</i>	10 Appleton St.
Hulme, Albert Edward,	<i>Andover,</i>	Andover.
Wyllie, Nathan Prindle,	<i>Boston,</i>	273 Columbus Ave.

## FIRST YEAR.

Arnold, Eugene Everett,	<i>Pawtucket, R. I.</i>	223 W. Canton St.
Bellows, John Morton,	<i>Boston,</i>	229 Northampton St.
Bryant, Edward Stanley,	<i>Brockton,</i>	Brockton.
Colley, William,	<i>Boston,</i>	53 Revere St.
Crane, Charles Winfield,	<i>Beverly,</i>	Beverly.

\* Addresses are in Boston, unless stated to be elsewhere.

Cummings, Charles Oscar, A.B.

(*Dartmouth Coll.*),

Dickerman, Frank Roberts,

Field, George William,

Gabell, Ernest Frederiek,

Grove, Joseph Geiger,

Hallett, Theodore,

Hill, Herbert Frederiek,

Jackson, Arthur,

Lamere, Arthur John,

Lewis, Arthur,

McCormiek, John Francis,

Macloon, George Rogers,

Moritz, Richard Carl,

Nealley, William Newton,

Richardson, Frederiek King,

Rose, Henry Edmund,

Smith, John Joseph,

Wilkinson, Frank Merrett,

*Claremont, N. H.* 4 Temple St.

*Taunton,* Taunton.

*London, England,* 51 Falmouth St.

*Brighton, England,* 636 Tremont St.

*Delaware, O.* 357 Columbus Ave.

*Yarmouth,* 32 Mt. Vernon St.

*Lincoln, England,* 26 Lagrange St.

*Boston,* 1 Trinity Pl.

*Lowell,* Lowell.

*Fall River,* 627 Tremont St.

*Jamaica Plain,* Jamaica Plain.

*Deering, Me.* 305 Columbus Ave.

*Leipzig, Germany,* 61 Chandler St.

*Charlestown,* 1 Oak St.,

Charlestown.

*Duluth, Minn.* 29 St. James St.,

Roxbury.

*Birmingham, England,* 53 Lagrange St.

*Warren, R. I.* 18 Durham St. [St.

*Kooringa, S. Australia,* 113 Dartmouth

## THE DENTAL SCHOOL.

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The Dental Department of the University is established in Boston, in order to secure in connection with the Medical Department those advantages for Clinical instruction which are found only in large cities.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess, beginning on the Wednesday before Fast Day and ending on the following Tuesday, both inclusive. The course of instruction is progressive, and extends over two years, the teaching of one year not being repeated in the next.

The first year is identical with that of the Harvard Medical School, the student receiving the same instruction by the same professors at the same time and place with the medical students and at the end of the year passing with them the same examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary remains open, and one of the Clinical Instructors and the Demonstrator are in attendance, daily, throughout the academic year, offering to students unsurpassed facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical College; and also, *without additional charge, to the instruction and examinations given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

### REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College, or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. **ENGLISH.** Every candidate will be required to write, legibly and correctly, an English composition of not less than two hundred words, and also to write English prose from dictation.

2. **PHYSICS.** A competent knowledge of Physics (such as may be obtained from Balfour Stewart's Elements of Physics).

**ELECTIVE SUBJECTS.** On and after June, 1891, each candidate for admission must pass an examination in *one* of the following subjects: Latin, French, German, the Elements of Algebra, or Plane Geometry.

Students may be admitted to advanced standing upon passing a satisfactory examination in a *majority* of the studies already pursued by the class.

Graduates of recognized Dental Schools will be admitted without examination to the courses of Operative and Mechanical Dentistry, but attendance on such courses does not entitle to examination for the degree.

The examinations for admission are conducted in writing. In judging the work of the candidate, the spelling, grammar and construction are considered.

*The examination for admission* is held at the Dental School in North Grove St., Boston, on the Monday preceding the last Wednesday in September, beginning at 10 A.M.

*No person will be examined for admission at any other than the regularly appointed time.*

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

The diploma is accepted by the English Board of Registration under the Dental Act, so that graduates of this School who are not British subjects can practise dentistry in Great Britain without further examination.

All persons intending to take the entrance examination must send their names to the Dean for registry at least two weeks previous to the day on which the examination is to take place.

### COURSE OF INSTRUCTION.

The following are the methods of study adopted in the various departments:—

*Anatomy.*—Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

*Physiology.* -- Lectures, recitations, conferences, and practical demonstrations in the laboratory. Opportunities for work in the physiological laboratory of the new Medical School are offered to students who are qualified to carry on original investigations.

*Chemistry* is taught mainly by practical work in the laboratory, the student having his own desk and apparatus. Descriptive chemistry and qualitative analysis are taught during the first year. Beside the laboratory work, there is a lecture and recitation every week.

*Surgery.* -- Lectures and recitations in oral surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in clinical surgery is given at the Massachusetts General Hospital and City Hospital every week.

*Surgical Pathology.* -- Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

*Operative Dentistry.* -- The instruction in this department is both didactic and practical. The Professor and other Instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most approved instruments and appliances used in operating upon the teeth, are appropriately discussed. Irregularities of the teeth receive special attention. Models of cases and the various appliances for treatment are shown and described. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

*Oral Anatomy and Physiology.* -- Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation. Instruction is given in the use of the microscope, and the preparation of objects for examination.

*Dental Pathology.* -- In the beginning of the course of lectures the general principles of pathology, including etiology, nosology, semiology, diagnosis, and prognosis are outlined. The various pathological conditions in their relations to one another and their modifications of structure

and function are taught. This prepares the way for the special pathology of the region with which the dentist has most to do. The diseases of the dental and contiguous tissues are considered in detail, with reference to their nature, causes, manifestations and terminations, and their relations with systematic conditions.

*Dental Materia Medica and Therapeutics.* — The course in materia medica is supplementary to that of the first year, instruction being given in the materials peculiar to the use of the dentist.

In therapeutics the entire field is covered, special emphasis being given to the application of remedies to diseases connected with this specialty.

Both lectures and recitations are given, and the collection of drugs and preparations is open to the inspection of the students at any time.

*Mechanical Dentistry.* — Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; also metallurgy, and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

*Neurology.* — A course of six lectures on the nervous system in health and disease, and its relation to the condition of the dental organs.

*Dental Chemistry.* — A course of ten lectures.

*Clinical Lectures on Operative Dentistry.* — Operations on patients — demonstrations and exhibition of models, showing the individual methods of the lecturers with descriptions and explanations.

#### BOOKS OF REFERENCE.

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|--|--|
| Gray's or Quain's Anatomy.                                 | Holden's Osteology.                            |
| Richardson's Mechanical Dentistry.                         | Martin's Human Body.                           |
| Bryant's Surgery.  | Dwight's Anatomy of the Head.                  |
| Billroth's Surgical Pathology.                             | Edes's Materia Medica and Therapeutics.        |
| Taft's Operative Dentistry.                                | Austin's Stimulants and Narcotics.             |
| Dalton's (6th edition) or Foster's Physiology.             | Turnbull's Anaesthetic Manual.                 |
| Bartley's Medical Chemistry.                               | American System of Dentistry.                  |
| Harris's Principles and Practice.                          | National Dispensatory.                         |
| Fresenius' or Douglas and Prescott's Qualitative Analysis. | Witthaus's Med. Students' Manual of Chemistry. |
| Tomes's Dental Surgery.                                    | Evans's Crown and Bridge Work.                 |
| Garretson's Oral Surgery.                                  | Bartholow's Hypodermatic Medication.           |
| Dunglison's Medical Dictionary.                            | Fillebrown's Operative Dentistry.              |
| Kingsley's Oral Deformities.                               | Mitchell's Dental Chemistry.                   |
| Guilford's Orthodontia.                                    |  |
| Talbot's Irregularities.                                   |  |

### EXAMINATIONS.

The regular examinations, conducted in writing and orally, are held at the end of each year in June in the following order, viz :—

At the end of the first year in the studies of that year, — anatomy, including dissection, physiology, general chemistry, and materia medica. A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

At the end of the second year in the studies of that year, — oral pathology, dental materia medica and therapeutics, oral surgery and surgical pathology, operative and mechanical dentistry, except that no student shall take the examinations in operative and mechanical dentistry till the year of his graduation. The examinations in operative and mechanical dentistry will include actual operations performed during the year, and the preparation of specimens of mechanical dentistry.

All applicants for advanced standing must pass the first year's examinations, or furnish proof that they have passed equivalent examinations in some recognized Dental or Medical School.

Examinations for advanced standing, on the studies of the preceding year, are held a week before the opening of the School in September.

No student will be allowed to anticipate the examinations in the regular course of studies of his year, except by special permission of the Faculty. Students intending to present themselves for examination must notify the Dean by letter of such intention, two weeks before the time when the examination is to be held.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the year 1890-91 will begin June 8 and September 21, 1891.

### REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariæ Medicinæ Doctor*) may be conferred upon each candidate of adult age, and of good moral character; who must give evidence of having studied medicine or dentistry three full years, at least one continuous year of which must have been spent at this School. He must also have passed *all the required examinations*, and convinced the Professors of Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art.

He must also deposit with the Dean, to be placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, prepared during the course under the eye of the instructor.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

Admission to advanced standing does not diminish the time (three years) to be spent in professional studies.



Beginning with the school year of '91-'92 the course will be a graded course of three continuous years, all of which must be spent in the School. The certificate of one or two year's study in a private office, either of a dentist or physician, will no longer be accepted. Graduates from other reputable dental schools will be permitted to enter the Senior class after passing the required examinations, or without examination, by special vote of the Dental Faculty.

### INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own tools, instruments, and appliances for both laboratory and operating room.

### LIBRARIES.

The College Library, at Cambridge, is open to students.

The Boston Public Library is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the treasurer the sum of fifty dollars, may also use this Library.

### FEES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year a student is a member of the School, the fee is \$200, in two payments of \$120 and \$80, at the beginning of each term; for the second year, \$150, in two payments of \$100 and \$50, payable at the beginning of each term; for any subsequent year, \$50, payable at the beginning of the year.

Students who do not file a bond are required to deposit \$15 to cover breakages, &c. in the Chemical Laboratory; also a deposit of \$6 for parts for dissection. The unused balance is returned at the end of the year.

Graduates of recognized Dental Schools will be admitted to the courses of Operative and Mechanical Dentistry for the whole or any portion of the academic year on payment of fifty dollars for each course. By attending these courses the student does not become a candidate for the degree.

Of students *who do not pay in advance*, a bond for \$300 executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond will be sent, on application to the Treasurer of the University. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment of fees until they shall have notified the Dean of their intention to withdraw from the School,

and have received their bond from the Treasurer. *No degree can be conferred till all dues to the School are discharged.*

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. The Janitor of the Medical School keeps a list of boarding-houses in which the charges are from five dollars per week upwards, according to accommodation furnished.

Students, on joining the School, must enter their names with the Dean of the Faculty.

For further information address Thos. H. Chandler, Dean, 161 Newbury St., Back Bay, Boston, Mass.

The following Tabular View illustrates the distribution of studies throughout the year.

First Class.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.		*Anatomy, R. Drs. Conant and Newell. L.-rm. E & D.	†Embryol. 8 L. Asst. Prof. C. S. Minot. Lect.-rm. B.
10	†Histology, L. Asst. Prof. C. S. Minot. Lect.-room B. Mat. Medica. Dr. C. Harrington. Lect.-room A.	{ Histol. Asst. Prof. C. S. Minot & Dr. Quincy. Lab. }	{ *Practical Physiol. Dr. J. W. Warren. Physiol. Lab. }	{ Histol. Asst. Prof. C. S. Minot & Dr. Quincy. Lab. }	†Mat. Medica. Dr. C. Harrington. Lect.-room A.	Physiol., R. Prof. Bowditch. Lect.-rm. A.
11	Physiology. Lect. or Conf. Dr. J. W. Warren. Lect.-room A.			Chemistry, L. Asst. Prof. Hills. Lect.-room A.	Physiol., L. Dr. J. W. Warren. Lect.-room A.	{ Chem. R. or L. Ast. Pir. Hills. L.-r. A. 1st 10 weeks. *Pract. Physiol. Dr. J. W. Warren. Ph. Lab. }
12		Physiol., L. Dr. J. W. Warren. Lect.-room A.	Chemistry, R. Asst. Prof. Hills. Lect.-room A.		†Hygiene, L. Dr. Harrington. L.-rm. A or B.	
2	Chem. Lab. †Med. Chem. L. Prof. Wood. Lect.-room A.	{ †Chem. Lab. †Practical Dentistry. Dtl. Hosp. No. Grove St. }	†Chem. Lab. †Med. Chem. L. Prof. Wood. Lect.-room A.	{ *Practical Physiol. Dr. J. W. Warren. Physiol. Lab. }	{ †Chem. Lab. †Practical Dentistry. Dtl. Hosp. N. Grove St. - }	{ Chem. Lab. }
3	{ Chemical Lab. }		{ Chemical Lab. }			
4						
5	Pract. Anat. Asst. Prof. M. H. Richardson. Lect.-room D.	Pract. Anat. Asst. Prof. M. H. Richardson. Lect.-room D.	Pract. Anat. Asst. Prof. M. H. Richardson. Lect.-room D.	Pract. Anat. Asst. Prof. M. H. Richardson. Lect.-room D.	Pract. Anat. Asst. Prof. M. H. Richardson. Lect.-room D.	

\* In sections.

† During first half-year.

‡ During second half-year.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

## Second Class.

	Monday.	Tuesday.	Wednesday	Thursday.	Friday.	Saturday.
9	Surg. Path., L. Dr. Monks. 12 weeks. Lect.-room B. Dent. Chem. Dr. C. R. Worcester. 10 weeks. Lect.-room A.	Dental Mat. Medica. and Thera., L. Asst. Prof. Briggs. Lect.-room B.	Op. Dent., L. Prof. Fille- brown. Lect.-room A.	Orthodontia. L. Dr. E. H. Smith. Lect.-room A.	Oral Anat., L. Physiology. Dr. Stanton. Lect.-room A.	Mechan. Dent., L. Prof. Chand- ler. Lect.-rm. A.
10	Prac. Mechan. Dentistry. Lab.	Prac. Mechan. Dentistry. Lab.	Prac. Mechan. Dentistry. Lab.		Prac. Mechan. Dentistry. Lab.	Prac. Mech. Dentistry. Lab.
10½				Dent. Path., L. Prof. Brackett.		
11				Laboratory. Dr. Moriarty.		
11½						Dr. Mori- arty.
12	Dr. Moriarty.	Dr. Moriarty.	Dr. Moriarty.		Dr. Moriarty.	
2	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	
3	Dr. Taft.	Dr. Pond.	Dr. Eddy.	Dr. Banfield.	Dr. Bouvé.	
4	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	
5	Extracting. Dr. Gay.	Extracting. Dr. Perkins.	Extracting. Dr. Dixon.	Extracting. Dr. Gay.	Extracting. Dr. Perkins.	

At Dental School, No. Grove Street.

## Third Class.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturda.
9	Neurology, L. 6 weeks. Dr. Walton. Lect.-room B.	Clinical L. or Dem. Dr. Wilson or Dr. Cook. 10 weeks. Lect.-room A.	Op. Dent., L. Prof. Fille- brown. Lect.-room A.	Clinical L. or Dem. Dr. Clapp. 5 weeks. Lect.-room B.	Clinical L. or Dem. Dr. Potter. 5 weeks. Lect.-room B.	Mechan. Dent., L. Prof. Chand- ler. Lect.-rm. A.
10	Prac. Mechan. Dentistry.	Prac. Mechan. Dentistry.	Crown work. Dr. Hopkins.	Prac. Mechan. Dentistry.	Prac. Mechan. Dentistry.	Prac. Mech. Dentistry.
11			Prac. Mechan. Dentistry.			
12	Dr. Moriarty.	Dr. Moriarty.	Dr. Moriarty.	Dr. Moriarty.	Dr. Moriarty.	Dr. Mori- arty.
2	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	Pract. Op. Dentistry.	
3	Dr. Taft.	Dr. Pond.	Dr. Eddy.	Dr. Banfield.	Dr. Bouvé.	
4	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	Dr. Clifford.	
5	Extracting. Dr. Dixon.	Extracting. Dr. Perkins.	Extracting. Dr. Dixon.	Extracting. Dr. Perkins.	Extracting. Dr. Gay.	

At Dental School, No. Grove Street.

LIST OF GRADUATES

OF

THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

1869.

Thomas Fillebrown, M.D.	Portland, Me.
Robert Tanner Freeman,	*1873.
Thomas Haley,	Biddeford, Me.
Edward Page, M.D.	Charlestown.
Samuel Julius Shaw,	Boston.
Joseph Jenkins Vincent,	Amherst.

1870.

John Thomas Codman,	Boston.
William Francis Davis,	Westfield.
George Franklin Grant,	Boston.
Samuel Franklin Ham,	Boston.
Daniel Grout Harrington,	Boston.
Thomas Wilson Hogue,	Stourville, Bournemouth, England.
Timothy Otis Loveland,	Boston.
William Henry Noyes,	Newburyport.
George Luther Parmele, M.D.	Hartford, Conn.
William Henry Thornton,	Providence, R. I.
Frank Edward Ward,	New Bedford.
Charles Wilson,	Boston.

1871.

Charles Monroe Bailey,	Minneapolis, Minn.
George Hayward Baker,	Woonsocket, R. I.
Charles Edwin Hussey,	Biddeford, Me.
Albert Benton Jewell,	Newton.
Philip Benjamin Laskey,	Marblehead.
William Pitt Morgan,	Saginaw City, Mich.

\* Deceased.

## 1872.

George Henry Ames,	Providence, R. I.
Sidney Chapin Bancroft,	Washington, D. C.
Charles Samuel Bartlett,	Boston.
James Dias Bell,	London, England.
Edwin Perley Bradbury,	Boston.
James Adkins Clark, M.D.	*1875.
James William Curtis,	Brunswick, Me.
George William Geist,	Frankfurt am Main, Germany.
John Warner Keyes,	Cheyenne, Neb.
George Edward Langdon Noyes,	Newburyport.
Frederic Miller Robinson,	Boston.
Samuel Saiza Silva,	Southbridge.
Benjamin Henry Torrens,	Fredericton, N. B.
Winslow Lewis Tucker A.M.	Boston.
Cecil Porter Wilson,	Boston.

## 1873.

Charles Albert Brackett,	Newport, R. I.
Edward Augustus Dimmick,	Barbadoes, W. I.
George Henry Knowles,	Central Falls, R. I.
William Herbert Rollins, M.D. (Harv.)	Boston.
Charles Herman Wolfe,	Worms am Rhein, Germany.

## 1874.

Willis Porter Battles,	Boston.
Edward Dwight Carr,	Truxton, N. Y.
Edward Eastman Frost,	Worcester.
George Leonard Mason,	New York, N. Y.
Horatio Cook Meriam,	Salem.
Frederic Augustus Merrill,	Boston.
Eugene Hanes Smith,	Boston.
Franklin Baker Stewart,	*1877.

## 1875.

Forest Greenwood Eddy,	Providence, R. I.
John Willard Hazleton,	Salem.
Joseph Traverse Morong,	*1880.
Wilbur Bates Parker,	Boston.
Eben Francis Whitman,	Boston.

\* Deceased.

## 1876.

Thomas Bradley,	Newport, R.I.
Oscar Berlin Brann,	Portland, Me.
George Peters Caldwell, M.D.	St. John, N. B.
George Cunningham, B.L., B.S.C., B.A., L.D.S.	Cambridge, England.
Edgar Morton Jewett,	Portsmouth, N. H.
George Otis Lawrence,	San Francisco, Cal.
Jesse Robbins,	Salem.
Charles Claude Rogers, L.D.S., M.R.C.S.	London, England.
Ezra Fletcher Taft, A.B.	Boston.
Julius George William Werner,	Boston.

## 1877.

Allston Gray Bouvé,	Boston.
Henry Francis Dunkel,	Gunnison, Col.
Edward Bigelow Hitchcock, M.D.	Newton.
Washburn Eddy Page,	Boston.
Frank Perrin,	Boston.
Lucius Tracy Sheffield,	New York, N. Y.
Richard Theodore Stack, A.B., M.D., CH.M.	Dublin, Ireland.
Frank Herbert Williams,	Boston.

## 1878.

Edward Cornelius Briggs, M.D. (Harv.)	Boston.
Joseph Mason Bright,	Bangor, Me.
Harry Fairfield Hamilton,	Boston.
Manning Kemard Rand,	Boston.
Daniel Frank Whitten,	Boston.
Herbert Chauncey Woodward,	Paris, France.

## 1879.

Frederic Eugene Banfield,	Boston.
Walter Bryant Currier,	Boston.
Thomas Clarence Gillingham,	Boston.
Edward Samuel Niles,	Boston.
John William Smith,	*1889.

## 1880.

Frederic Eugene Ayer,	Chicago, Ill.
Albert James Colgan,	Wollaston.
Arthur Ernestine Lewis,	Worcester.
John Scott Mason,	Boston.
Virgil Clarence Pond, B.P.H.	Boston.

\* Deceased

1881.

William Parker Cooke,	Boston.
George Alfred Dennett,	Boston.
James Alfred Reilly,	Boston.
Edmond Rosenthal,	Liège, Belgium.
Otis Franklin Smith,	Boston.

1882.

Dwight Moses Clapp,	Boston.
George Eubank,	Birmingham, Ala.
Edward Earl Hopkins,	Boston.

1883.

Elliot Bowdoin Bacheller,	Boston.
Edwin Carter Blaisdell,	Portsmouth, N. H.
Frederic William Hill,	London, England.
Edward Albert Lowe,	Lowell.
Samuel Sterrett Macfarlane,	Pittsburgh, Pa.
Myron William Smith,	*1886.
Joseph Ellsworth Waitt,	Boston.
George Arthur Williams,	Liverpool, England.

1884.

Charles Lincoln Abbott,	Kansas City, Mo.
Frederic William Bevington,	Lawrence.
Henry Parsons Cooke,	Worcester.
Charles Percy Curtis,	Rome, Italy.
Arthur Crowell Gerry,	Lowell.
George Henry Gerry,	Worcester.
Charles Franklin McDonald,	Boston.
Ned Albert Stanley,	New Bedford.
Jere Edmund Stanton, M.D.	Boston.
Alfred Horace Tester, L.D.S.	Tunbridge Wells, England.

1885.

Charles Henry Abbot,	Berlin, Germany.
Edward Merrill Currier, M.D.	Boston.
Charles Eugene Estabrook,	Boston.
Thomas James Giblin,	Boston.
Henry Webster Gillett,	Newport, R. I.
Walter Harrison, L.D.S.	Brighton, England.
William Henry Potter, A.B.	Boston.
James Shepherd,	Boston.

\* Deceased.



1886.

Lyman Fisher Bigelow,	Boston.
Waldo Elias Boardman,	Boston.
William Thomas Borton,	St. Petersburg, Russia.
Frederick Bradley,	Newport, R. I.
Henry Michael Clifford,	Boston.
Isidor Fürst,	Hamburg, Germany.
Leonard Nutter Howe,	Boston.
Frederic Milton Mayo,	Boston.
Wilhelm Leopold Olander,	Helsingfors, Finland.
Charles Hutchins Taft, A. B.	Cambridge.
Henry Lauriston Upham,	Boston.

1887.

Peter Crank, L. D. S.	Australia.
Carroll Ketcham Huntley,	Whiting, Vt.
Leslie Maxwell, L. D. S.	London, England.
Edwin Leslie Shattuck,	El Dorado, Kan.
Frank Ellsworth Sprague,	Nashua, N. H.
Henry James Stark,	*1889.
Edgar Fremont Stevens,	Boston.
Arthur Henry Stoddard,	Boston.
Charles Henry Veo,	London, England.
John Daniel Wilson,	Boston.
Harry Eugene Windsor,	Providence, R. I.
Thomas Weston Wood, A. B.	Boston.
Harvey Warner Woodberry,	Duluth, Minn.
Charles Frederick Wright, L. D. S.	London, England.

1888.

George Pierce Geist,	Frankfurt am Main, Germany.
Frederick Payne Graves,	Saco, Me.
Ellis Proctor Holmes,	Waterville, Me.
Henry Allen Kelley,	Portland, Me.
Thomas George Read, L. D. S.	London, England.
Frederick Arnold Stevenson,	Montreal, Canada.
Charles Bryant Titcomb,	San Francisco, Cal.

1889.

Fred. Anthony Arnold,	Newport, R. I.
Henry Jefeins Borton,	Boston.
Charles Poor Briggs, A. B., M. D. (Harv.),	Boston.

\* Deceased.

William Frederick Gay,	Boston.
Paul Grünewald,	Frankfurt am Main, Germany.
Frank Irving Hammond,	Providence, R. I.
Frederick Sylvanus Hopkins,	Worcester.
Daniel Albion Jones,	Pleasant Valley, Conn.
William Russell Jones,	Northampton.
William Lombardino,	Berlin, Germany.
Patrick William Moriarty,	Boston.
William Curran O'Leary,	Boston.
Arthur Henry Osgood, A.B.	Boston.
Caleb Heath Shepard,	Bath, Me.
Frederic Ervin Twitchell,	Boston.
Eugene Jakob Wetzel,	Bâle, Switzerland.
James Robert White,	Boston.

## 1890.

Sidney Roland Bartlett,	Boston.
Harry Oliver Bixby,	Milford, N. H.
Benjamin Howard Codman,	Boston.
Edwin Hartley Dixon,	So. Eliot, Me.
Arthur Warren Eldred,	Worcester.
Charles Marning Keep, M.D.	Brookline.
Charles Elmer Luce,	Walnut Hill.
Kotai Masuda,	Tokio, Japan.
Arthur Judson Oldham,	Wellesley Hills.
Hermann Paal,	Osnabrück, Germany.
Charles Ernest Perkins,	Brockton.
Oscar Pulvermacher,	Berlin, Germany.
Edward Rolfe,	Valparaiso, Chili.
Elbridge Abbott Shorey,	Dover, N. H.
Frank Turner Taylor,	New Bedford.



