

## NORMAL ART SCHOOL

OF

MASSACHUSETTS.

1885-6.



## CIRCULAR

OF THE

# Massachusetts Normal Art School,

1645 WASHINGTON STREET, BOSTON,

(LATE THE DEACON HOUSE)

UNDER THE DIRECTION OF THE STATE BOARD OF EDUCATION.

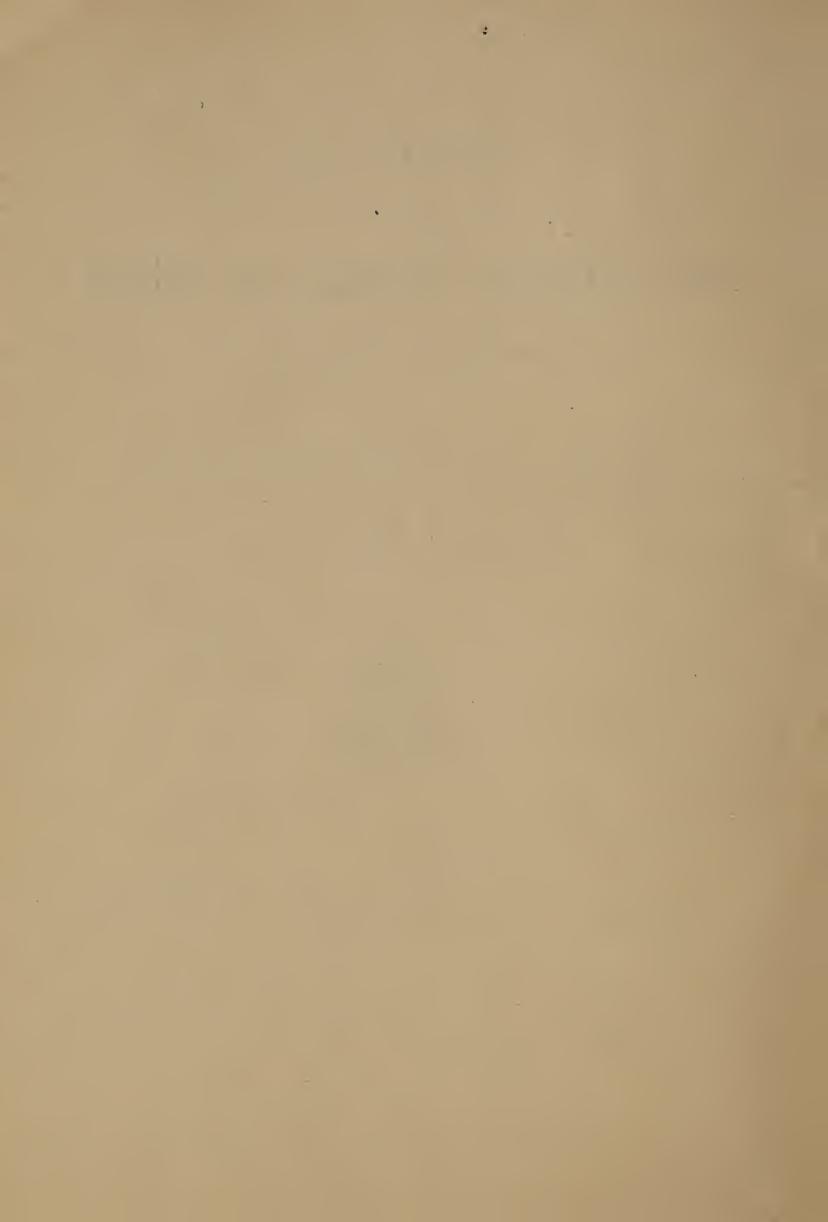
THIRTEENTH YEAR, 1885-86.



## BOSTON:

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## Instructors.

Mr. Geo. H. Bartlett			Freehand, Light and Shade Drawing	Class A.
Mr. W. F. Brackett .			Architecture and Perspective	Classes A and C.
Mr. A. K. Cross	•		Geometry and Instrumental Drawing	Classes A and C.
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Mr. Albert H. Munsell			Sculpture and Advanced Perspective	Classes B and.D.
Miss D. L. Hoyt			Painting in Water Color	Class B.
Miss M. A. Bailey .			Painting in Oil	Class B.

Miss M. T. Jones, Curator.

## Hist of Students

WHO, HAVING PASSED THE EXAMINATION AND COMPLETED THE CERTIFICATE

WORKS IN THE SEVERAL CLASSES ENUMERATED BELOW, HAVE

RECEIVED CERTIFICATES OR THE DIPLOMA.

Note. — The numerals under each class signify the year (since 1870) in which the student, whose name is opposite, received the certificates.

~			ASS ICAT	ES.	Diplomas.	CLASS . CERTIFICATES.	Diplomas.
Name of Student.	A. B. C. D.		Diplo	NAME OF STUDENT. A. B. C. D.	Diple		
Avery, Helen W.  *Anthony, Alfred J. Atwood, Evelyn. Adams, S. Herbert Attwill, Lizzie B. Adams, Chas. L. Allen, Ralph W. Adams, Dora M. Andros, Annie H. Austin, Alice. Beer, John A. Berry, A. Hun Briggs, William Baker, Lucas. Bowler, Emiline F. Barry, Chas. A. Brackett, W. F. Ball, Fannie E. Benham, Marion L. Bowditch, Ellen O. Brammer, Joseph Bailey, Mercy A. Bucklin, Wm. S. Booth, Etta E. Belleville, Hattie M. Burrage, Hattie A. Binney, Anna S. Bradbury, Elenora C. Bartlett, Mary G. Babbitt, Annie M. Burrison. Henry K. Brown, Henry M. Birney, Wm. V.	75 75 77 78 78 78 85 85 74 74 75 75 75 75 75 76 76 76 76 76 77 77 78 78 78	79 - 82 79 82 75 75 75 78 79 79		83 80	1883	Beals, Willis H	1884

<sup>\*</sup> Deceased.

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Name of Student.	СЕ	CLASS CERTIFICATES.				1	Name of Course	CE	Diplomas.			
NAME OF STUDENT.	Α.	В.	C.	D.	Diplomas.		Name of Student.	Α.	В.	C.	D.	Diple
Carter, Chas. M. Curtis, Annie E. Coburn, Bella *Cook, Herman E. Coffin, Clara A. Cheney, Alice E. Creighton, Hattie R. Colcord, Clara M. Collins, Frank H. Carleton, Herbert E. Church, George B. Cook, Lucy R. Carleton, Harriet E. Christie, Helen Copeland, Edith S. Chapin, Mary Collins, Alice M. Carter, Mary E. Church, Wallace B. Codding, Julia P. Cross, Anson K. Carter, Hannah J. Clark, Fannie M. Cleaves, Florence Calrow, Alice B. Carter, Fannie E. Crooks, Fanny E. Carr, Mary E. Chadwick, Josephine T. Clark, Florence G. Dean, Walter L. Dudley, L. Hannah Day, Lizzie G. Dupee, Anna E. Dimock, Elizabeth F. Dupee, Octavia G. Davis, Annie M. Dowe, Lemuel A. Dyer, Florence A. Dow, Grace L. Damon, Evelina M. Dinsmore, Chas. H. Dowse, Fannie C. Dutton, Alice M. Dyer, Carrie E. Damon, Nellie L.	76 76 77 77 77 78 78 79 79 80 80 80 81 81 82 82 82 82 83 84 84 85 85 85 76 76 76 76 76 76	78 78 78 78 78 78 78 78 78 78 78 78 78 7	79	79	1879		Edmans, Lena P. Everett, Sadie E. England, Wm. A. Eaton, Eliza S. Ellinwood, Minnie C. Emmins, Charlotte J. Evans, Gertrude M. Edminster, C. Frank French, Loresta E. *Fisher, Maud R. Francis, Ellen A. Farley, Helen S. Fowler, John S. Flagg, Linna B. Flagg, Hiram P. Folger, Lizzie M. Furbush, M. Josephine Fairbanks, Harold W. Ferson, Earl B. Field, Luisa M. Falk, Albion W. Frost, Clara D. Fuller, Lucretia J. Friend, Nannie S. Fifield, Alice M. Goodnough, Walter S. Green, Michael J. Gardner, Ella L. Gotte, Jean M. Greenwood, Louis A. Green, Ella C. Greer, Grace W. Griggs, Anna F. Goddard, Annie F. Gollman, Mary A. Graves, Albert M. Guild, Alice E. Gardner, Harriet E. Gardner, Harriet E. Gardner, Julia A. Gendrot, Julia A. Gendrot, Julia A. Gendrot, Julia C. Gregg, Jennie W. Goddard, Maria K. Hoyt, Deristhe L.	79 82 82 83 85 85 77 77 77 77 77 77 77 77 77 77 77 77 77	81 -84	79 8x 80 83	8x - 84	1883
Dodge, Charles C Emerson, Fannie S Elliott, Geo. B	S <sub>5</sub> 75 77	-	-	=		l	Hooper, Wm. P Hintz, Bertha W Hitchings, Henry	75 75 75	75   -   -	-	77	

<sup>\*</sup> Deceased.

	Ci Certi	LASS FICAT	ES.	mas.		СЕ	ES.	mas.		
NAME OF STUDENT.	A. B	. C.	D.	Diplomas.	Name of Student.	Α.	В.	C.	D.	Diplomas
Hollis, Cynthia E Holmes, Anna C	76 76 76 76 76 76 76 76 77 77 77 77 77 7	79	80	1881   1879  1880  1883	Langley, Annie W Little, Abbie H Laughlin, Ada M Lewis, Jennie F Livingston, Cora J Lawrence, Chas. A Miller, Leslie W Mansfield, Mary . Marble, J. M Mason, Wm. A., Jr Marsh, Helen F Mansfield, Frank . Moon, Mintie Munsell, Albert H Merrian, Ada A Molineux, Henrieta . Mellen, Laur M Merritt, Jennie M	80 80 82 82 83 84 74 75 75 76 77 77 77 77 77 78 80	- 82 - 84 80 75 - 80 79 79 82	79	85 	1880 1881
Hildreth, Mary E.  Holden, Alice E.  Horton, Helen  Hutchings, Lydia A  Herrick, Lizzie A.  Hewins, Ellen A.  Harding, Emily E.  Haskell, Jennie P.  Howard, Bessie B  Harlow, Beatrice B.  Hurlbut, Martha A.  Hammond, Mary A.  Hersey, Fred W.  Johnson, Mary E.  Joslyn, Mary E.  Jepson, George  Jennison, Lucia M.  Jackson, Jennie M.  Judkins, William L.  Jaques, Martha F.  Kingsbury, Edward R.	80 80 80 80 81 83 84 85 85 85 85 87 77 77 81 83 85 85	4			Metcalf, Emma F.  Morris, George E.  Meisel, Jennie M.  Mills, Alice  Martin, H. Isabel  Munsell, Ida E  MacNeil, Herman A.  Mason, Alice C  Mann, Josephine B.  Mendum, Mary E.  MacLauthlin, Rena  Murray, Henry D  Matthews, Joseph D  McCarthy, John  Mendum, Charlotte E  Mossman, Fidie E  Meyer, Marie L  McIntosh, Fannie C  MacWhorter, Jennie W  Murphy, May A  Nolen, Caroline	80 80 81 81 82 83 83 83 84 84 84 84 85 85 85 85 85 74	81 83 3 - 82 844 855	82		1883
Kaan, Emma W Kimball, Emily Kendall, Charlotte A Locke, Emma F *Lord, John D Loring, George A Lock, Josephine C Lovering, Ella M Lamb, F. Mortimer	85 85 74   7 74 75 76 77   8 79   8	4	80	1880	Norcross, Ella A. Nason, M. E. Norton, Dora M. Needham, Ellie Noyes, Frank H. Nye, A. Maud Norton, Susie M. Oakes, S. Pierce O'Connor, Minnie O'Brien, Arthur F.	75 77 79 81 84 84 85 75 83	80	81	-   -	

<sup>\*</sup> Deceased.

	СЕ		ASS FICAT	res.	mas.		CLA CERTIFIE			mas.	
Name of Student.	A.	В.	C.	D.	Diplomas.	NAME OF STUDENT.	A.	В.	C.	D.	Diplomas.
Pierce, Osborn J. Putnam, Benj W. Parker, Frank G. *Patten, Arthur C. Peabody, Margie G. Perrin, Julia Perry, Walter S. Pitman, Sophia L. Palmer, Laura E. Plaisted, Lilla M Parsons, Caroline L. Parsons, Lydia A. Perry, Chas. H. Porter, George M. Page, Henrietta Parker, Emma T. Prichard, John A. Prince, Flora Piper, Edwin D. Poole, Jennie A. Poor, Henry W. Page, Hollis B. Pillsbury, E. Pond, Adeline V. Packard, Fred C. Page, Edith Peterson, Georgia Perkins, Bessie H. Prince, Jessie N. Roos, Peter Robbins, Sarah H. Rose, Eben Roys, Viola G. Radford, Helen L. Rich, Delia C. Richards, W. F. Richardson, Theo. J. Rodman, Warren A. Richards, Warren A. Richards, Walton H. Roberts, Walton H. Roberts, Gertrude Rowland, Emma E. Shaw, Annie F. Spalter, A. Maria	74 74 74 75 75 75 75 75 75 76 77 77 77 77 77 77 77 77 77 77 77 77	- 75 - 77 - 76 - 79 78 79 82 79 82 77	76 	77 78 82 83 84 84	1877	Stewart, Nellie W. Saunders, Carrie H. Shepley, Annie B. Starbuck, Francis M. Smith, Elmer B. Sanborn, Arthur H. Shattuck, Katie E. Sherman, Lillie L. Smith, Elmira G. *Stetson, Julia A. Storer, Charles Stone, Josephine M. Simmons, Elizabeth J. Stacey, John F. Smith, Clara M. Smith, May L. Sherry, A. Fannie Swasey, Josephine F. M. Scribner, A. W. Sears, Kate B. Sears, Minnie P. Sherman, Mertie E. Slafter, Annie R. Stetson, M. Josie Sweeney, Thomas E. Sanborn, Lizzie M. Skinner, Wm. L. Smith, Fannie H. Spaulding, Alice Maude Smith, Mary B. Smith Mollie Stephens, Kate Sinclair, Annie N. Tufts, Abbie B. Taylor, Will L. Tucker, Emily J. Thompson, Wm. A. Taft, Mary F. *Thaxter, Thomas W. Thompson, L. S. Torrey, Wm F. Trask, Abbie J. Thomas, Ella A. Titus, Lucy E. Taylor, George Todd, Emma	75 76 76 76 76 77 78 78 78 78 78 78 78 78 78 78 78 78	777 78	81 - 84	79 80 82 83 84	1884

<sup>\*</sup> Deceased.

NAME OF STUDENT.			ASS ICAT	ES.	Diplomas	CLASS CERTIFICATES.	Diplomas.
		В.	C.	D.	Dipl	NAME OF STUDENT.  A B. C. D.	Diple
*Tibbetts, Arthur L. Tilton, M. Bessie Titus, Sarah A. Teed, Hannah J. Upham, Esther M. Vonnoh, Robert W. Vance, Carrie M. Walker, Sophia A. Whiton, Maria E. Ware, George Wild Wellington, Leah M. Webster, Clara E. Woodman, George E. Watson, Lucretia S. Webster, M. Isabel *Webster, Clara E. Webster, Clara E. Wellington, Sarah H. Whitney, Lizzie E. Whitney, Chas. F. White, Abbie M.	\$2 \$2 \$3 84 85 77 82 75 76 76 77 77 77 78 78 78 78	78 84 77 78 80 -	80 - 1 - 1 - 1	79 85 78 79	1880	Wild, Mary E	1833

<sup>\*</sup> Deceased.

## Massachusetts Normal Art School.

In view of the great importance of drawing as a branch of education, the Legislature, by an Act passed May 16, 1870, made instruction in this branch obligatory in the public day schools, and required cities and towns containing more than ten thousand inhabitants to make provision for free instruction in industrial drawing to persons over fifteen years of age. This act met with much public favor; but it was soon found that it was impossible to realize satisfactorily the benefits intended by the Act for want of competent teachers. A Resolve was therefore passed by the Legislature providing for the establishment and maintenance of a State Normal Art School.

#### DESIGN OF THE SCHOOL.

This school is intended to be a training school for teachers of industrial art. The specific aim at present is to prepare instructors to teach and superintend industrial drawing in the schools of the State. It also aims to provide for high skill in technical drawing, and for industrial art culture.

#### LOCATION.

No. 1645 Washington Street, Boston (late the Deacon House).

#### CONDITIONS OF ADMISSION.

Candidates for admission must be above sixteen years of age; must bring a certificate of good moral character from some well-known person in the town in which they reside, and must be able to pass an examination in the common English branches of study, and in freehand drawing of ornament from copy. (See also preparatory class.) This examination will be held at the beginning of each school year. Tuition is free to students residing within the State and intending to teach drawing in the public schools, but five dollars per term will be charged for incidentals. Tuition for students from without the State is fifty dollars per term. Students requiring instruction in special studies may enter any class without passing through class A, by payment of a fee of fifty dollars per term, and passing an examination.

All fees are payable to the curator at the beginning of each term.

#### COURSE OF INSTRUCTION.

The school offers a four years' course (see class A) of training in the mechanical and artistic branches, and their practical application to industry. The work of class A is devoted to elementary drawing: of class B to form, color and industrial design; of class C to the constructive arts, and of class D to sculpture and design in the round. Many of the lectures are given during the first term, and cannot be repeated during the second term. For the work of classes A. B or D the student, if desirous, will receive a written statement from the principal. Students having

completed the work of classes A and C, will receive a diploma certifying that they are qualified to teach mechanical and architectural drawing; those having completed the work of classes A, B and D, one certifying to their qualifications to teach industrial art.

### CLASS IN THE ART INDUSTRIES AND REPRODUCING ARTS.

This class and the subjects taught in it are elective; only the students of classes B, C and D are eligible for membership. The class will be instructed by the various teachers, each taking some special art.

By the instruction given, students will be made practically familiar with some of the industrial arts, and for this reason more competent to give instruction in subjects bearing upon the art industries of the State.

#### EXAMINATIONS.

In addition to the regular certificate works, class exercises in the subjects studied during the year must be submitted to show whether the student has acquired the knowledge and manipulative skill necessary for teaching industrial art. If the works pass examination and an average of 65 per cent, in time sketches and test examination has been earned, the student will be entitled to the certificate examination at the end of the school-year. Students failing to pass in any subject may apply again the next year on condition that they again perform all the regular classwork required in that study, but they will not receive any certificate until all the subjects of examination have been passed and all certificate works approved.

## POST GRADUATE COURSE.

Graduated students may continue the course of study for one year, without payment of fees, on condition that if called upon by the principal they will devote some of their time to teaching in the school.

## RECOMMENDATIONS FOR APPOINTMENT.

The school takes no responsibility in securing appointments, but applications for teachers will be brought to the attention of such students as the faculty judge best prepared to do the required work.

### REGULATIONS OF THE SCHOOL.

All materials and apparatus required are to be provided by the students; no examples for instruction can be removed from the school by them, and any damage done to the property of the school must be paid for by those causing it.

Attendance will be registered daily and absence or tardiness must be explained to the instructors. Excuses will be granted by the principal only upon application made through the instructor of the class.

Every student will be provided with a locker, in which to keep boards and drawing materials. On receiving the key the student must deposit one dollar as a guaranty that the key will be returned; when this is done the money will be refunded. Keys lost or broken by students must be replaced by them.

The only works allowed to be executed in the school, are those required by the instructors to illustrate their lectures or lessons, and those on the list of certificate works.

Each instructor will require a certain amount of work to be done by the students between lectures which must be regarded as a part of the regular school work.

Any text-book required for use or reference will be indicated by the instructor.

Students may remain in any class for two years, but having failed to complete the required work within that time, will be considered as no longer belonging to it, and can complete this course of study only as special students.

Students who have passed through class A, and whose appointments as teachers of drawing prevent their attendance at the school, upon the payment of the regular fees, and fulfilling all the requirements of any succeeding class, will be treated as if in attendance at the school.

Any certificate work which, in the opinion of the principal, does not show sufficient skill to qualify the student to teach the subject, will be rejected and another one required.

Not less than one work nor more than two works from the set belonging to each student, will be retained as the property of the school.

The student who produces the best set of works in his class will receive a written certificate from the principal testifying to the fact; these sets will be retained for one year and placed on exhibition in the school. The discipline of the school is made as simple as possible; pupils are expected to govern themselves, to do without compulsion what is required, and to refrain from all improprieties of conduct; those who are unwilling to conform to the known wishes of the teachers are presumed to be improper persons to continue in the school.

All persons presenting themselves for admission to the school are judged to have read these regulations, and the signed application is considered a pledge to abide by them.

#### SCHOOL YEAR.

The school year of 1885-6 will begin the third Monday in September, 1885, and close the last Friday in June, 1886.

The year is divided into two terms: the first comprises the months of September, October, November, December and January; the second, the months of February, March, April, May and June.

#### SESSIONS.

Instruction is given from 9 A. M. to 1 P. M., and from 2 to 4 P. M., on Monday, Tuesday, Wednesday, Thursday and Friday.

## VACATIONS AND HOLIDAYS.

Thanksgiving Day and the remainder of the week. Christmas Day to New Year's Day inclusive. Two weeks at the close of the first term. Washington's Birthday, Good Friday, Fast Day. The second week in April and Decoration Day.

#### PREPARATORY CLASS.

### INSTRUCTORS, SAME AS IN CLASS A.

For the benefit of those persons who have not had the training necessary to qualify them for admission to class A, an elementary or preparatory class has been established, for admission to which an examination in outline drawing from copy will be given. In this class instruction will be given in the following subjects: — Forms of bodies as the basis of drawing; single and combined working views; freehand and instrumental perspective views; elementary drawing and design; instrumental geometry and perspective; a graded course in light and shade, using charcoal, sepia, crayon and water color. One finished drawing in each subject must be made, so arranged as to show the method of instruction given.

#### LIST OF DRAWINGS.

[To be on half imperial paper.]

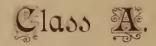
- 1. Geometric Problems.
- 2. Perspective Problems.
- 3. Orthographic Projection.
- 4. Model Drawing (in outline).
- 5. Model shaded with stump.
- 6. Model shaded with crayon point.
- 7. Model shaded with sepia or India ink.
- 8. Elementary Exercises in design, showing principles and mode of procedure.

- 9. Botanical Analysis.
- 10. Outline of Furniture.
- 11. Outline of Foliage.
- 12 Outline of Historic Ornament.
- 13. Illustrations of Elementary Drawing.

The above works having been completed students must pass the following examinations for admission to class A:

- 1. Plane Geometry.
- 2. Perspective parallel and angular.
- 3. Orthographic Projection.
- 4. Model Drawing (outline).
- 5. Model drawing (shaded).
- 6. Historic Ornament (outline from cast).

These examinations must be passed by all who desire admission to class A. They will be given to those not students of the preparatory class at the beginning of the school year.



#### ELEMENTARY DRAWING.

#### Instructors.

Mr. Geo H Bartlett Freehand Drawing, Light and Shade, Historic Ornament,
Color and Design.

Mr. W. F. Brackett - Perspective, Geometry, Isometric, Building Construction and Model Drawing

Mr. Chas. M. Carter . . . Teaching in the Public Schools.

Mr. A. K. Cross . . . Orthographic Projection, Projection of Shadows and Machine Drawing.

Miss A. M. Davis Freehand Drawing.

#### LIST OF DRAWINGS.

To be made on whole or half imperial paper.

- 1. Geometric Problems.
- 2. Perspective Problems.
- 3. Orthographic Projection.
- 4. Isometric Drawing.
- 5. Projection of Shadows.
- 6. Machine Drawing.
- 7. Building Construction.
- 8. Model Drawing shaded in chalk (3 stages).
- 9. Model Drawing shaded in water color (monochrome).
- 10. Model Drawing shaded in charcoal (3 stages).
- 11. Details showing methods of giving black and white values for colors.
- 12. Model Drawing shaded in crayon.

- 13. Details of the human figure, from the cast, showing: 1st, blocking-in lines; 2d, finished outline; 3d, breadth of shade, indicated by half-tint.
- 14. Outline of animal form from cast.
- Ornament from cast, shaded in chalk with point or stump.
- 16. Ornament from cast, shaded with sepia or India ink.
- 17. Exercises in Design, showing principles and methods.
- 18. An original practical design for the flat or round.
- 19. Analysis of plant and insect form from nature for the purpose of design.
- 20. Paintings, in sepia and water color, of a flower from nature.
- 21. Analysis of Styles of Historical Ornament.
- 22. Specimen Drawing Exercises arranged for Public Schools.

#### EXAMINATION FOR CERTIFICATE.

The above drawings having been submitted and approved, examinations in the following subjects will be held at the end of the year:

- 1. Plane Geometrical Drawing.
- 2. Orthographic Projection.
- 3. Perspective.
- 4. Model Drawing from Object.
- 5. Isometric Projection.
- 6. Projection of Shadows.

- 7. Machine Drawing.
- 8. Building Construction.
- 9. Historical Ornament.
- 10. Harmony of Color.
- 11. Teaching in the Public Schools

List of examinations for entrance on page 17.

## Class B.

## FORM. COLOR AND INDUSTRIAL DESIGN

ANATOMY AND TRAWING OF THE FIGURE.
A VANLED PERSON.
INTUSTRIAL TESTON.
HARMON AND CHEMISTRY OF COLUR. WITH TRACTICE IN WATER
RS AND ILS

I ESST COME

Miss it L Hogy

Mr. Autor H. Mosell Iss W A Public Woter Color Printing. Charlestry of Colors and History of Painting.

And the Figure I range of Advanced Perspective.

Of Panting, Industric Design. Handy of Color.

## LIST OF CERTIFICATE WORKS.

## Painting in Water Colors.

- 1 Flower and Foliage from Nature.
- 2. Group as a Study of Composition and Color.
- 3. Sheet, showing progressive stages of water-color printing.
- 4. Head from Life.

## Drawings.

- 5. Study of Antique Figure from Cast.
- 6. Skeleton of Same.
- 7. Muscles of Same.
- 8. Studies of Detail and Action from the Living Model
- 10. Perspective; Shadows, Reflections and Aerial Effects.

## Painting in Oil.

- 11. Study in Monochrome from Cast of Human Figure.
- 12. Group as a Study of Composition and Culur.

## Design in Color - Surface Decoration.

- 1. Details comprising the human animal and plant forms for the purpose of design.
- 2. An original practical design, with the whole or part of the sheet of details applied. This design must be worked to scale.

Students who intend devoting two years to class B must make the sheet of details and original design during the first year, otherwise they will not be allowed to enter the class a second year.

The designs in classes B, C and D must be made in accordance with a proposition to be given at the beginning of each school year.

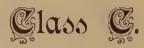
### EXAMINATIONS FOR CERTIFICATE.

#### Practice.

- 1. Time sketch in oil, of a group of o jects and still life.
- 2. Time sketch, in water colors, of a head from living model.
- 3. The same of a group.
- 4. Time sketch, in light and shade, of a cast of human figure.

## Theory.

- 5. Paper on the harmony of color, illustrated by sketches.
- 6. Paper on the origin and chemistry of culors, and on the technical terms used in painting.
- 7. Paper on the application of surface ornanent to industrial purposes
- 8. Paper on the principles and styles of the historic schools of parting
- 9 Anatomy: Rendering of an antique figure.
- 10. Perspective, aerial, shadows and reflections,



### CONSTRUCTIVE ARTS.

ARCHITECTURAL DESIGN.
MACHINE DRAWING—CONSTRUCTION AND DESIGN.
DESCRIPTIVE GEOMETRY.
TOPOGRAPHICAL DRAWING.

#### Instructors.

Mr. W. F. BRACKETT Mr. A. K. CROSS .

Building Construction and Architectural Design.
Descriptive Geometry, Machine Drawing, Topography and
Ship Draughting.

#### LIST OF CERTIFICATE WORKS.

## Architectural Design and Building Construction.

- 1. Design for a house or public building, showing plans, elevations, sections and perspective, on one sheet.
- 2. Structural details, on an enlarged scale, of floors, windows, roof and staircase, of the first subject.
- 3. Monograph of the ancient, mediæval or modern styles of architecture and ornament.
- 4. Drawing of a building to scale from actual measurement of the structure; plans and two geometric elevations.

## Machine Drawing-Construction and Design.

- 5. Sheet of screws, and application of screw forms.
- 6. Sheet of wheels, spur, bevel, cams, eccentrics, gearing.
- 7. Plan, elevation and section of a locomotive or stationary engine, from copy.
- 8. Drawing to scale from a drill, pump, or any other machine.
  Details of same prepared for shop.

## Descriptive Geometry and Topographical Drawing.

- 9. Sheet of illustrations, in outline, from lectures on descriptive geometry. Development of surfaces.
- 10. Sheet of intersections of solids and projection of shadows; tinted.
- 11. Ship draughting. Lines of a boat.
- 12. Topographical drawing of an estate from data given; colored.

Three designs must be made by each student in accordance with the given proposition. (See class B.)

#### EXAMINATIONS FOR CERTIFICATE.

## Architectural Design.

- 1. Paper on the styles of architecture and ornament illustrated in the monograph.
- 2. Paper on building construction in the several materials used.
- 3. Design for a building in the style employed for the certificate work, complying with given conditions. Sketches required.
- 4. Design for details of ornament.

## Machine Drawing.

- 5. Paper on details of machinery.
- 6. Drawing to scale from a machine placed in the examination room.

## Topography, Descriptive Geometry, and Ship Draughting.

- 7. Paper on solid geometry and projection of shadows.
- 8. Map Drawing.
- 9. Draughting a vessel from data.

## Çlass D.

## SCULPTURE AND DESIGN IN THE ROUND - MODELLING AND CASTING.

Instructor, . . . Mr. Albert H. Munsell.

#### LIST OF CERTIFICATE WORKS.

#### Ornament and Animal Form.

- 1. Historic ornament in one style from the cast.
- 2. Study of ornament from flat copy.
- 3. A design for a capital, spandrel, panel, rosette, or enriched moulding, executed the full size, for stone, wood, iron, or terra-cotta.
- 4. Model of flowers or foliage, from nature, in relief, or statuette of an animal, or an animal in relief.

## Human Figure.

- 5. Portrait head from nature, life-size, in the round or relief.
- 6. Bas-relief from antique figure in the round.
- 7. Anatomical rendering of an antique figure.
- 8. Model in relief from a print or drawing of a human figure or head.
- 9. Bust, life-size. from the antique.
- 10. Study from life, in relief or the round, of the whole figure.

#### Casts.

- 11. Cast from nature of an arm, hand, foot or mask.
- 12. Cast from nature of foliage, fruit or flowers.
- by the student from his own models or selected works.

Two designs must be made by each student, in accordance with the given proposition (see class B), also a sheet of details of animal form drawn from the flat or round, with the light and shade indicated by half-tint; these details are to be grotesqued on the same sheet.

#### EXAMINATIONS FOR CERTIFICATE.

## Theory.

- 1. Paper on sculptured ornament of the Historical Schools.
- 2. Paper on design applied to objects in the round; viz., plaster, terracotta, wood work (constructional and sculptured), metal (cast and wrought), stone, marble, etc.
- 3. Paper on sculpture of the human figure.

#### Practice.

- 4. To sketch in clay an anatomical rendering of an antique figure.
- 5. To sketch in clay a relief copy of a piece or ornament from the cast or shaded copy.
- 6. Cast of same.

- 7. To model a relief from the entire figure in the round.
- 8. To model a bust or statuette from the antique or life or shaded copy
- 9. To make a charcoal sketch of a head from nature, life-size.

#### NOTICE CONCERNING CERTIFICATE WORKS.

Four of the ten certificate models are to be of imperial size, or in the round, and one is to be cast by the student, and left in the school as a specimen.

The works are to be an example of bas-relief, of mezzo-relief, alto-relief, or the round.

