ERRATA.

October 14, 1911.

This may certify that I have found that, through a mistake in printing, the minutes of the meeting of the Board of Trustees of the University of Illinois, held Jan. 15, 1909, which as Secretary I presented to the Board for approval March 9, 1909, lack a sentence which should be inserted on page 88 after the sentence beginning "By general consent."

This sentence is, "On motion of Mr. Blair the report as amended was then adopted."


On page 209, "Budget for the year 1908-09," should read "Budget for the year 1909-10."
TWENTY-FIFTH REPORT
(Seven Annual, Eighteen Biennial)

OF THE

Board of Trustees

OF THE

University of Illinois

URBANA, ILLINOIS

FOR THE TWO YEARS ENDING SEPTEMBER 30, 1910
CONTENTS.

Letter of Transmittal ................................................................. III
Board of Trustees ................................................................. V
Advisory Boards ................................................................ XI
Officers of Administration and Instruction .............................. XXII
Faculty of the College of Medicine ......................................... XXVI
Faculty of the College of Dentistry ........................................... XXVII
Faculty of the School of Pharmacy ........................................... XXVIII
Instructors in the Academy .................................................... XXXI
Staff of the University Library .................................................. XXXI
Staff of the Agricultural Experiment Station ............................. XXXII
Staff of the Engineering Experiment Station ............................. XXXI
Staff of the State Laboratory of Natural History ......................... XXXII
Staff of the State Water Survey ................................................ XXXIII
Staff of the State Entomologist's Office ..................................... XXXIII
Staff of the State Geological Survey .......................................... XXXIV
Staff of the State Mine Rescue Station ...................................... XXXIV
Summaries of Students .............................................................. XXXV
Proceedings of the Board of Trustees, 1908-1909 ......................... 1
  Meeting of September 29, 1908 .............................................. 1
  Meeting of December 8, 1908 .............................................. 21
  Meeting of December 28, 1908 ............................................ 52
  Meeting of January 15, 1909 .............................................. 71
  Meeting of March 9, 1909 ................................................... 97
  Meeting of March 31, 1909 ................................................ 121
  Meeting of April 29, 1909 ................................................ 131
  Meeting of June 4, 1909 ................................................... 136
  Meeting of June 14, 1909 ................................................ 145
  Meeting of June 24, 1909 ................................................ 156
  Meeting of July 14, 1909 ................................................... 198
  Meeting of July 21, 1909 ................................................... 209
Financial Report and Warrants, 1908-1909 .................................. 220
Proceedings of the Board of Trustees, 1909-1910 ......................... 453
  Meeting of September 14, 1909 .......................................... 453
  Meeting of November 26, 1909 .......................................... 470
  Meeting of December 14, 1909 .......................................... 474
  Meeting of February 3, 1910 ............................................. 500
  Meeting of March 8, 1910 ................................................ 509
  Meeting of April 12, 1910 ................................................ 528
  Meeting of June 1, 1910 ................................................... 532
  Meeting of June 13, 1910 ................................................... 543
     Adjourned session of June 29, 1910 ................................. 559
  Meeting of July 29, 1910 ................................................ 596
Index ..................................................................................... 859
University of Illinois, Urbana, Sept. 30, 1910.

Honorable Charles S. Deneen, Governor of Illinois:

Sir—I have the honor to submit to you herewith, in compliance with the law, the twenty-fifth report of the Trustees of the University of Illinois, for the two years ending September 30, 1910. I am, very respectfully, your obedient servant,

William L. Pillsbury, Corresponding Secretary.
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Ex Officio.

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FRANCIS G. BLAIR, Superintendent of Public Instruction, Springfield.

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*Deceased.
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Fred Carl Zapf, M.D., Instructor in Clinical Surgery, 1764 Lexington Ave.
John Eddy Haskell, M.D., Instructor in Materia Medica, 4643 Prairie Ave.
George John Lorch, M.D., Instructor in Materia Medica and Clinical Medicine, 490 West Chicago Ave.
Henry Eugene Irish, M.D., Instructor in Materia Medica and Therapeutics, 627 Grand Ave.
Charles Humphrey Treadwell, M.D., Instructor in Electro Therapeutics, 361
45th St.
Carl Westman, M.D., Instructor in Medical Gymnastics, 92 State St.
Howard O. Shafer, M.D., Instructor in Gynecology, 448 North Clark St.
Irving Herbert Eddy, M.D., Instructor in Gynecology, 1205 Wrightwood Ave.
Bernard Montrose Conley, M.D., Instructor in Neurology, Wilmette.
Samuel Joseph Russell, M.D., Instructor in Neurology, 31 Washington St.
William F. Bernart, M.D., Instructor in Venereal Diseases, 42 Madison St.
Lester Mills Stearns, M.D., Instructor in Anatomy, Oak Park.
Eric Jacob Danek, M.D., Instructor in Materia Medica and Therapeutics,
1517 Lincoln Ave.
James G. Carr, M.D., Instructor in Senior Medicine, 989 West 22d St.
Egon Walter Fischman, M.D., Instructor in Senior Medicine, College.
George Ludwig Alt, M.D., Instructor in Medicine, 546 North Clark St.
Maurice Lewison, M.D., Instructor in Nuerology and Diseases of the Chest,
College.
Seigfried Jackson, M.D., Instructor in Medicine, 279 East North Ave.
Arthur K. Stangland, M.D., Instructor in Senior Medicine, College.
William H. Crede, M.D., Instructor in Diseases of the Chest, 2293 North
Hermitage Ave.
James Garrety, M.D., Instructor in Diseases of the Chest, College.
Francis Deacon, M.D., Instructor in Physiology, 100 State St.
Mark Twain Goldstein, M.D., Instructor in Obstetrics, 100 State St.
Frederick Hamilton Blayney, M.D., Instructor in Clinical Surgery, 576
West Madison St.
George H. Van Dyke, M.D., Instructor in Clinical Gynecology, 185 Hast-
ings St.
William Gray Allen, M.D., Instructor in Anatomy, 1427 Roscoe St.
Mina McEachern, M.S., M.D., Instructor in Anatomy, 4731 Ashland Ave.
Gilbert L. Bailey, M.D., Clinical Instructor in Orthopedic Surgery, College.
Charles P. Lyman, M.D., Clinical Instructor in Orthopedic Surgery, 1968.
West Madison St.
Ulysses Grant Windell, M.D., Clinical Instructor in Surgery, Extra Mural,
966 West Lake St.
Svenning Dahl, M.D., Clinical Instructor in Surgery, Extra Mural, 622
North Hoyne Ave.
Arthur W. Stillians, M.D., Instructor in Dermatology and Venereal Diseases.
Charles Francis Yearger, M.D., Instructor in Operative Surgery.
William Benjamin Handlin, M.D., Instructor in Anatomy.
Joseph Thomas Woof, M.D., Instructor in Anatomy.
Charles Cornelius Clark, M.D., Instructor in Clinical Surgery.
William Butler West, M.D., Instructor in Ophthalmology and Otoology.
Gilbert H. Wynekoop, B.S., M.D., Instructor in Histology, Biology and
Embryology.
John Roff Harger, M.D., Assistant in Clinical Surgery.
James Graybeal, M.D., Assistant in Clinical Medicine.
Edward Augustine Corcoran, M.D., Assistant in Junior Medicine.
Frank John Fara, M.D., Assistant in Clinical Medicine.
Mary B. White, M.D., Assistant in Gynecology.
Francis McCord, M.D., Assistant in Gynecology.

COLLEGE OF DENTISTRY.

FACULTY.

Edmund Janes James, Ph.D., LL.D., President, Urbana.
George Washington Cook, B.S., D.D.S., Dean, Professor of Bacteriology,
Pathology and Therapeutics, Cor. 47th St. and Kenwood Ave.
Donald MacKay Gallie, D.D.S., Professor of Operative Dentistry and Oper-
ative Technic, 100 State St.
Finis Ewing Roach, D.D.S., Professor of Prosthetic Dentistry and Porcelain
Art, Trude Building.
XXVIII

UNIVERSITY OF ILLINOIS.

ACADEMY.

INSTRUCTORS.

Charles Maxwell McConn, A.M., Principal, 1002½ West California Ave., U.

Celia Anne Drew, Ph.B., Instructor in English, 404 John St., C.

George Merit Palmer, A.M., Instructor in English and Rhetoric, 1210 West Stoughton St., U.

Ava D. Steele, A.M., Instructor in English and Rhetoric, 709 South Fourth St., C.

Howard Baker Kingsbury, A.B., Instructor in Mathematics, 607 South Sixth St., C.

Simeon E. Boomer, A.B., Instructor in Mathematics, 511 East Springfield, C.

Newton Edward Ensign, A.B., Instructor in Mathematics, 610 West Illinois St., U.

Frank Waters Thomas, A.B., Instructor in Latin and Greek, 704 West Park St., U.

Margaret Annie Scott, A.B., Instructor in German and French, 807 West Lincoln Ave., U.

Harry Thompson Nightingale, A.M., Instructor in History and Civics, 901 West Green St., U.

Charles Manfred Thompson, A.B., Instructor in Mathematics, 1307 West Stoughton St., U.

Oscar Ross Martin, A.B., Instructor in Bookkeeping, Commercial Geography and Physiography, 1004 West Oregon St., U.

Claude William Sandifur, A.M., Teacher of Physics, 710 West Stoughton St., U.

John Philo Gilbert, A.M., Instructor in Biology, 502 South Goodwin Ave., U.

Daniel Otis Barto, B.S., Instructor in Secondary School Agriculture, 919 Nevada St., U.

Helena Maude Pincomb, B.S., Instructor in Household Science for Secondary Schools, 712 Oregon St., U.

Sophie Mary Voss, Mus.B., Instructor in Piano, 405 South State St., C.

THE UNIVERSITY LIBRARY.

STAFF.

Edmund Janes James, Ph.D., LL.D., President.

Phineas Lawrence Windsor, Ph.B., Librarian and Director of Library School, 704 South Lincoln Ave., U.

Francis Keese Wynkoop Drury, A.M., B.L.S., Assistant Librarian, 907 West Oregon St., U.

Beulah Agnes Burroughs, Secretary to Librarian, 312 West Church St., C.

Robert Morrill McCurdy, A.B., B.L.S., Order Librarian, 110 West Hill St., C.

Jacob Hodnefield, A.M., Exchange Assistant, 1307 West University Ave., U.

Lois Antoinette Reed, A.B., B.L.S., Order Assistant, 809 South Lincoln Ave., U.

Clara Louise Gridley, B.L.S., Order Assistant, 901 South Wright St., U.

Myra O'Brien, A.B., B.L.S., Order Assistant, 712 West Oregon St., U.

Mary Hilda Roberts, A.B., Order Assistant, 1009 West Oregon St., U.

Philip Sanford Golding, A.B., Catalog Librarian, 810 Nevada St., U.

Adah Patton, B.L.S., Catalog Assistant (Classifier), 917 West Oregon St., U.

*Fleda DeVere Straight, A.B., B.L.S., Catalog Assistant, 809 South Ave., U.

Ida Louise Lang, A.B., B.L.S., Accessioner, 703 South Third St., C.

Jennie Adah Craig, A.B., B.L.S., Catalog Assistant, 613 West Springfield Ave., C.

Annabel A. Hulburd, A.B., Catalog Assistant, 907 South Gregory St., U.

*Resigned Dec. 1, 1903.
OFFICERS AND INSTRUCTORS.

Frances Simpson, M.L., B.L.S., Reference Librarian, 902 West Oregon St., U. Margaret Hutchins, A.B., B.L.S., Reference Assistant, 606 West Green St., U. Alice Sarah Johnson, B.L.S., Reference Assistant, 718 West Church St., C. Emma Reed Jutton, B.L.S., Loan Librarian, 501 Chalmers St., C. Frances Marguerite Feind, A.B., B.L.S., Loan Assistant, 1306 West Springfield Ave., U.

Florence Louise Brundage, A.B., Order Assistant, 703 South Third St., C. Edith Emigh, Reserve Assistant, 805 South Goodwin Ave., U. Antoinette Helen Goetz, A.B., Reserve Assistant, 1004 California Ave., U. John Simeon Cleavinger, A.B., Sunday Attendant, 405 John St., C. Anne Davies Sweezy, A.B., B.L.S., Binding Librarian, 606 Daniel St., C. Josie Batchelder Houchens, A.B., B.L.S., General Assistant, 112 East John St., C.

Florence Rising Curtis, Library Economy, 712 West Oregon St., U.


Logan G. Griffith, Assistant in Law Library, 816 West Church St., C.

THE AGRICULTURAL EXPERIMENT STATION.

STAFF.

Eugene Davenport, M.Agr., LL.D., Director.
Cyril George Hopkins, Ph.D., Vice Director.
Thomas Jonathan Burrill, Ph.D., LL.D., Botanist.
Stephen Alfred Forbes, Ph.D., LL.D., Consulting Entomologist.
Donald McIntosh, V. S., Consulting Veterinarian.
Henry Lewis Rietz, Statistician.
Catherine McCallum McIntyre, Secretary.

IN AGRONOMY.

Cyril George Hopkins, Ph.D., Chief, 1001 South Wright St., C.
Louis Henry Smith, Ph.D., Assistant Chief, Plant Breeding, 604 East Daniel St., C.
Jeremiah George Mosier, B.S., Assistant Chief, Soil Physics, 907 West Illinois St., U.
James Harvey Pettit, Rh.D., Assistant Chief, Soil Fertility, 914½ West California Ave., U.
†Albert Nash Hume, M.S., Assistant Chief, Crop Production.
Jerome Edward Readhimer, B.S., Superintendent, Soil Experiment Fields, 1003 South Sixth St., C.
Orlo Dorr Center, B.S., First Assistant, Crop Production, 510 East Daniel St., C.
William George Eckhardt, B.S., Assistant, Soil Fertility, 915 South Goodwin Ave., U.
Leonard Hegnauer, B.S., Assistant, Crops, 607 West California Ave., U.
Axel Ferdinand Gustafson, B.S., Assistant, Soil Physics, 1004 West Oregon St., U.
Earnest Van Alstine, B.S., Assistant, Chemistry, 1105 West Oregon St., U.
Clyde Hadley Myers, B.S., Assistant, Plant Breeding, 617 South Wright St., C.
Joseph Paul Aumer, B.S., Assistant, Chemistry, 701½ West University Ave., U.

†On leave.
Arthur Lumbrick, B.S., Assistant, Crop Production, 806 Gregory Place, U.
Ora Stanley Fisher, B.S., Assistant, Soil Fertility, 505 East Daniel St., C.
Clarence Chester Logan, B.S., Assistant, Soil Physics, 603 South North St., U.
Jay Boardman Park, B.S., Assistant, Chemistry, 904 Gregory Place, U.
Sidney Viel Holt, B.S., Assistant, Soil Survey.
Augustus Washington Hayes, B.S., Assistant, Soil Survey, 103 East Green St., C.
Harold Wilson Stewart, B.S., Assistant, Soil Survey, 106 South Romine St., U.
Henry Clyde Wheeler, B.S., Assistant, Soil Survey.
Gertrude Niederman, B.S., Assistant, Chemistry, 403 South Wright St., C.
Rhea Gordon Smith, B.S., Assistant, Chemistry, 904 South Gregory Place, U.

IN ANIMAL HUSBANDRY.

Herbert Windsor Mumford, B.S., Chief, Experiment Station Farm, U.
Harry Sands Grindley, Sc.D., Chief, Animal Chemistry, 918 West Green St., U.
William Dietrich, M.S., Assistant Chief, Swine Husbandry, 701 West California Ave., U.
Ward J. MacNeal, Ph.D., M.D., Assistant Chief, Bacteriology, 904 West Oregon St., U.
Louis Dixon Hall, M.S., Assistant Chief, Animal Husbandry, 111 East Chalmers St., C.
Rufus Chauncey Obrecht, M.S., Assistant Chief, Horse Husbandry, 1016 Nevada St., U.
Arthur Donaldson Emmett, M.A., Associate, Animal Nutrition, 707 West Illinois St., U.
Walter Castella Coffey, M.S., First Assistant, Sheep Husbandry, 607 West Oregon St., U.
Henry Orson Allison, B.S., Assistant, Animal Husbandry, 311 West Daniel St., C.
Frederic William Gill, B.S., First Analyst, Animal Husbandry, 601 West Illinois St., U.

IN DAIRY HUSBANDRY.

Wilbur John Fraser, M.S., Chief, 1003 South Wright St., C.
Cassius Clay Hayden, M.S., Assistant, Dairy Husbandry, 904 West California Ave., U.
Jesse Melangthon Barnhart, B.S., Assistant Chemist, Dairy Husbandry, 707 West Illinois St., U.
Nelson William Hepburn, B.S., First Assistant, Dairy Manufactures, 1004 West Oregon St., U.
Royden Earl Brand, B.S., Assistant, Dairy Husbandry, 604 West Illinois St., U.
Walter Lee Gaines, B.S., Assistant, Dairy Husbandry, 503 Daniel St., C.
Delos Lawrence James, Assistant, Dairy Husbandry, 706 South Third St., C.
LeRoy Lang, B.S., Assistant, Dairy Husbandry, 112 East Green St., C.

IN HORTICULTURE.

Joseph Cullen Blair, M.S.A., Chief, 810 West Oregon St., U.
Charles Spencer Crandall, M.S., Chief, Plant Breeding, 1106 West Oregon St., U.
John William Lloyd, M.S.A., Assistant Chief, Olericulture, 1118 Arbor Ave., U.
Ralph Barnard Howe, B.S., Assistant, Pomology, 907 West California Ave., U.
Oscar S. Watkins, B.S., Assistant Chemist, Horticulture, 1104 West Illinois St., U.
OFFICERS AND INSTRUCTORS. XXXI

Herman Bernard Dorner, M.S., Assistant, Floriculture, 1104 West Illinois St., U.
Ira Sanford Brooks, B.S., Assistant, Floriculture, Y. M. C. A. Building, C.
Arno H. Nehrning, Assistant, Floriculture, 901 West Illinois St., U.
Ernest Winfield Bailey, M.S., Assistant, Plant Breeding, 606 John St., C.
Warren Albert Ruth, M.A., Assistant, Horticulture Chemistry, 901 West Illinois St., U.
Charles Elmer Durst, B.S., Assistant, Floriculture, 309 Green St., C.

IN BOTANY.

Thomas Jonathan Burrill, Ph.D., LL.D., Chief, 1007 West Green St., U.

ENGINEERING EXPERIMENT STATION.

STAFF.

Edmund Janes James, Ph.D., LL.D., President.
William Freeman Myrick Goss, M.S., D.Eng., Director.
Roy Weaver Rutt, B.S., Assistant to the Director.
Elizabeth Andrews Swift, A.B., Assistant Editor.
The heads of the Departments in the College of Engineering.

SPECIAL INVESTIGATORS.

Herbert Fisher Moore, M.M.E., Assistant Professor in the Department of Theoretical and Applied Mechanics, 908 West Nevada St., U.
*Kenneth Gardner Smith, A.B., B.S., Assistant Professor (Mechanical Engineering) in charge of Engineering Experiment Station Extension, 905 South Coler Ave., U.
John McBeath Snodgrass, B.S., Assistant Professor in the Department of Mechanical Engineering, 306 Davidson St., C.
Duff Andrew Abrams, C.E., Associate in the Department of Theoretical and Applied Mechanics, 709 South Fourth St., C.
Thomas Hamer Amrine, E.E., Associate in the Department of Electrical Engineering, 609 South Coler Ave., U.
Franklin Wales Marquis, M.E., Associate in the Department of Railway Engineering, 205 West Hill St., C.
Frank Lyman Busey, M.E., First Assistant in the Department of Mechanical Engineering, 203 West Green St., U.
†Wilfred Forrest Wheeler, B.S., First Assistant in the Department of Chemistry, 1303 West Illinois St., U.

STATE LABORATORY OF NATURAL HISTORY.

STAFF.

Stephen Alfred Forbes, Ph.D., LL.D., Director, 1209 W. Springfield Ave., U.
Charles Arthur Hart, Systematic Entomologist, 923 West Green St., U.
Mary Jane Snyder, Secretary, 504 East Daniel St., C.
Grace Osgood Kelley, B.L.S., Librarian, 307 East Davidson St., C.
Robert Earl Richardson, A.M., Assistant in charge of Biological Station, Havana.

*Resigned.
†Deceased.
STATE WATER SURVEY.

STAFF.
Edward Bartow, Ph.D., Director, 1007 West Oregon St., U.
Thomas Jonathan Burrrill, Ph.D., LL.D., Consulting Bacteriologist, 1007 West Green St., U.
Samuel Wilson Parr, M.S., Consulting Chemist, 919 West Green St., U.
Arthur Newell Talbot, C.E., Consulting Engineer, 1011 West California Ave., U.
Lewis Isaac Birdsall, A.B., Chemist, Y. M. C. A. Building, C.
Frank Bachmann, Bacteriologist, 903 West Illinois St., U.

STATE ENTOMOLOGISTS' OFFICE.

STAFF.
Stephen Alfred Forbes, Ph.D., LL.D., State Entomologist, 1209 West Springfield Ave., U.
Charles Arthur Hart, Systematic Entomologist, 923 West Green St., U.
John June Davis, Assistant for Northern Illinois, 3913 North 42d Ave., Chicago.
George Ethelbert Sanders, B.S.A., Assistant for Central Illinois.
Wesley Pillsbury Flint, Assistant for Central Illinois.
Lindley M. Smith, B.S., Assistant for Southern Illinois, 413 West Main St., Carbondale.
Alexandre Arsene Girault, B.S., General Field Assistant.
Fred Talmage Wiley, A.B., Chief Horticultural Inspector, Lincoln Place, U.
William C. Mattews, Artist.
Ernest Harlen Scott, Stenographer, 904 West Stoughton St., U.
Floy Way, Stenographer, 705 South Third St., C.

STATE GEOLOGICAL SURVEY.

COMMISSION.
Governor Charles S. Deneen, Chairman.
Professor T. C. Chamberlain, Vice Chairman.
President Edmund Janes James, Secretary.

STAFF.
Frank Walbridge DeWolf, Acting Director, 907 West Oregon St., U.
Edward Bartow, Consulting Chemist, in Water Analysis, 1007 West Oregon St., U.
Ulysses S. Grant, Consulting Geologist in Lead and Zinc Work, Northwestern University, Evanston.
Samuel Wilson Parr, Consulting Chemist in Coal Investigations, 919 West Green St., U.
Charles Wesley Rolfe, Consulting Geologist in Clay Investigations, 601 East John St., C.
Rollin D. Salisbury, Consulting Geologist in Preparation of Educational Series, University of Chicago, Chicago.
Thomas Edmund Savage, Geologist, 604 South Busey Ave., U.
Stuart Weller, Geologist, University of Chicago, Chicago.
Edwin Fuller Lines, Assistant Geologist, 1009 South Third St., C.
Raymond Silliman Blatchley, Assistant Geologist, 714 West Park St., C.
OFFICERS AND INSTRUCTORS.

Robert Y. Williams, Engineer in charge Mine Rescue Station, 505 West Washington St., C.

James M. Webb, Assistant in Mine Rescue Station, 1002 West California Ave., U.

George Edward Carothers, Chief Clerk, 714 West Park St., C.


MINE RESCUE STATION.

STAFF.

Edmund Janes James, Ph.D., LL.D., President.

William Freeman Myrick Goss, M.S., D. Eng., Dean, 1103 West Nevada St., U.

Harry Harkness Stoek, E.M., Professor of Mining Engineering, 1005 West Green St., U.

Frank Walbridge DeWolf, B.S., Acting Director of State Geological Survey, 907 West Oregon St., U.

Joseph A. Holmes, Chief of Technologic Branch.

George S. Rice, Mining Engineer.

Robert Y. Williams, A.B., E.M., Mining Engineer.

James M. Webb, Assistant.
## SUMMARY OF STUDENTS.

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Summary of Students—Concluded.

UNDERGRADUATES BY COLLEGES, SCHOOLS AND CLASSES—1908-1909.

<table>
<thead>
<tr>
<th></th>
<th>Senior</th>
<th>Junior</th>
<th>Sophomore</th>
<th>Freshman</th>
<th>Special</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature and Arts</td>
<td>148</td>
<td>147</td>
<td>177</td>
<td>309</td>
<td>57</td>
<td>838</td>
</tr>
<tr>
<td>Science</td>
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<td>51</td>
<td>74</td>
<td>106</td>
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<tr>
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<td>351</td>
<td>418</td>
<td>43</td>
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<tr>
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<td>3</td>
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<td><strong>Total</strong></td>
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<td>693</td>
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UNDERGRADUATES BY COLLEGES, SCHOOLS AND CLASSES—1909-1910.

<table>
<thead>
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<th></th>
<th>Senior</th>
<th>Junior</th>
<th>Sophomore</th>
<th>Freshman</th>
<th>Special</th>
<th>Total</th>
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</thead>
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<td>306</td>
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</tr>
<tr>
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<td>672</td>
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