1921

Colby College Catalogue 1921 - 1922

Colby College

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1921

SEPT. 20-21, TUESDAY-WEDNESDAY,—Examinations for admission.
SEPT. 22, THURSDAY,—Registration.
SEPT. 23, FRIDAY,—Academic Year begins, 8 A.M.

NOV. 11, FRIDAY,—Armistice Day. A holiday.
NOV. 23, WEDNESDAY,—Thanksgiving Recess begins, 12 M.
NOV. 28, MONDAY,—Thanksgiving Recess ends, 10 A.M.

DEC. 16, FRIDAY,—Christmas Recess begins 6 P.M.

1922

JAN. 5, THURSDAY,—Christmas Recess ends, 8 A.M.
JAN. 27, FRIDAY,—First Semester ends, 6 P.M.
JAN. 30, MONDAY,—Mid-year Examinations begin, 9 A.M.

FEB. 4, SATURDAY,—Mid-year Examinations end, 5 P.M.
FEB. 7, TUESDAY,—Second Semester begins, 8 A.M.

FEB. 13, MONDAY,—Sophomore Prize Declamation.
MARCH 13, MONDAY,—Annual Murray Prize Debate.
MARCH 24, FRIDAY,—Easter Recess begins, 12 M.
APRIL 6, THURSDAY,—Easter Recess ends, 8 A.M.
APRIL 17, MONDAY,—Annual Goodwin Prize Speaking Contest.
APRIL 19, WEDNESDAY,—Patriot’s Day. A holiday.
APRIL 24, MONDAY,—Annual Hallowell Prize Speaking Contest.
MAY 5, FRIDAY,—Annual Lyford Prize Speaking Contest.
MAY 15, MONDAY,—Annual Coburn Prize Speaking Contest.
MAY 26, FRIDAY,—Annual Hamlin Prize Speaking Contest.
MAY 30, TUESDAY,—Memorial Day. A holiday.
JUNE 9, FRIDAY,—Election of courses for 1922-23.
JUNE 10, SATURDAY,—Seniors’ Last Chapel, 8:30 A.M.
JUNE 10, SATURDAY,—Final Examinations begin, 9 A.M.
JUNE 16, FRIDAY,—Final Examinations end, 5 P.M.
Commencement Program

JUNE 17, SATURDAY,—Junior Prize Exhibition, 8 P. M.
JUNE 18, SUNDAY,—Baccalaureate Sermon, 10:30 A. M.
JUNE 18, SUNDAY,—Commencement Address, 8 P. M.
JUNE 19, MONDAY,—Junior Class Day Exercises, 2:30 P. M.
JUNE 19, MONDAY,—Phi Beta Kappa Meeting, 4:30 P. M.
JUNE 19, MONDAY,—President’s Reception, 8 P. M.
JUNE 20, TUESDAY,—Meeting of the Board of Trustees, 10 A.M.
JUNE 20, TUESDAY,—Senior Class Day Exercises, 2:30 P.M.
JUNE 20, TUESDAY,—Meeting of Alumnae Association, 12 M.
JUNE 20, TUESDAY,—Meeting of Alumni Association, 12 M.
JUNE 21, WEDNESDAY,—Commencement Exercises, 10 A.M.
JUNE 21, WEDNESDAY,—Commencement Dinner, 12:30 P. M.

Summer Vacation of Thirteen Weeks

SCHEDULE OF EVENTS, 1922-1923

SEPT. 19-20, TUESDAY-WEDNESDAY,—Examinations for admission.
SEPT. 21, THURSDAY,—Registration.
SEPT. 22, FRIDAY,—Academic Year begins, 8 A.M.
NOV. 30, THURSDAY,—Thanksgiving Day. A holiday.
DEC. 15, FRIDAY,—Christmas Recess begins, 6 P. M.

1923
JAN. 4, THURSDAY,—Christmas Recess ends, 10 A.M.
JAN. 26, FRIDAY,—First Semester ends, 6 P. M.
JAN. 29, MONDAY,—Mid-year Examinations begin, 9 A.M.
FEB. 3, SATURDAY,—Mid-year Examinations end, 5 P.M.
FEB. 6, TUESDAY,—Second Semester begins, 8 A.M.
COLBY COLLEGE

COLBY COLLEGE originated with the Baptist churches of the District of Maine. The Bowdoinham Association in 1810, the Cumberland Association and the Lincoln Association in 1811, appointed committees to petition the General Court of Massachusetts for the incorporation of an institution of higher learning, and a charter was granted February 27, 1813, entitled “AN ACT to establish a Literary Institution in the District of Maine”, and the institution was to be known as THE MAINE LITERARY AND THEOLOGICAL INSTITUTION. The Trustees named in the act of incorporation organized with the choice of Rev. Sylvanus Boardman as President, and Rev. Otis Briggs as Secretary, and entered upon the preliminary work of establishing the College. By a resolve of the Legislature of Massachusetts, passed February 15, 1815, and in pursuance of Section 10 of the ACT of Incorporation, Township No. 3, on the west side of the Penobscot river, was conveyed to the Trustees. It had been the design of the founders to establish the institution upon the township which now includes the towns of Alton and Argyle; but soon becoming convinced of the absurdity of locating a College in a region destitute of common schools and but sparsely inhabited, a petition was presented to the Legislature of Massachusetts requesting that body to authorize a more central location. The request was at once granted in an ACT approved June 12, 1815; and the Trustees were authorized “to locate in any town within the Counties of Kennebec and Somerset”. The Trustees fixed upon Waterville, in Kennebec County, as the seat of the proposed College. Here the Theological Department was established July 6, 1818, under the direction of Rev. Jeremiah Chaplin, and the Literary Department in October, 1819.

By an ACT passed June 18, 1820, by the Legislature of the State of Maine, the Trustees were “empowered to confer such degrees as are usually conferred by Universities established for the education of youth.” And on the 28th of June, 1820, the Legislature appropriated the sum of one thousand dollars annually for seven years to the Maine Literary and Theological Institution, stipulating that at least one-fourth of the sum to be received should go toward the reduction of the tuition of deserv-
ing students. The name of the Institution was changed to 
WATERVILLE COLLEGE in 1821, the Act authorizing this change 
having been passed by the Legislature of Maine on February 5, 
1821.

An agent was appointed in 1859 to solicit subscriptions for 
the Endowment Fund of the College. No marked success at­
tended his efforts until August, 1864, when Mr. Gardner Colby 
of Boston subscribed $50,000 on condition that $100,000 addi­
tional should be raised. This condition was fulfilled, and in 
1866, at the suggestion of President Champlin, the Trustees 
voted to ask the Legislature to change the name of the insti­
tution to Colby University in honor of its benefactor, Mr. Colby. 
By an Act of January 23, 1867, the name of the Corporation 
was accordingly changed to "The President and Trustees of 
COLBY UNIVERSITY". The benefactions of Mr. Colby, including 
the bequest received after his death, April 2, 1879, amounted 
to $200,000. No further change was made in the name of the 
College until January 25, 1899, when, at the request of the Board 
of Trustees, the Legislature of Maine changed the style of the 
Corporation to its present form, "The President and Trustees of 
COLBY COLLEGE.

In 1871, young women were admitted to the College on the 
same terms as young men; and in 1890 the Board of Trustees 
adopted a plan proposed by President Small, and organized 
within the College a Division for young men, and a co-ordinate 
Division for young women. The conditions for entrance remain 
identical in the two Divisions. In class organization, rank, prize 
contests, appointments, and honors, the members of the two 
Divisions are treated as independently as though the institutions 
were distinct.

In June, 1920, the College celebrated its one-hundredth anni­
versary with appropriate exercises. This occasion was marked 
by the successful completion of a campaign for $500,000, of which 
$125,000 was pledged by the General Education Board of New 
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Lisbon Falls
Monticello
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Groton, Conn.
Amityville, N. Y.
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Waltham, Mass.
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Warren
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Δ. T. House
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A. T. Ω. House
A. X. A. House
Δ. T. House
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A. X. A. House
R. H.
Δ. T. House
A. T. Ω. House
A. T. Ω. House
Δ. T. House
Δ. K. E. House
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Henry Dutton Teague
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Hugh Cram Whittimore
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Sedgwick
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Brewer
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Palermo
Strong
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Waterville
Nashua, N. H.
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Jeffersonville, Vt.
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Lawrence, Mass.
Skowhegan
Colchester, Conn.
Hinckley
Waterville
Searsmont
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Waterville
A. X. A. House

R.H.

Waterville
221 Main St.

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A. K. E. House

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R. H.

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Brockton, Mass.  
Hope  
Auburn  
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Warren  
Waterville  
Oakland  
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Waterville  
Oakland  
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Strong  
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Waterville  
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R. H.  
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239 Main St.  
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H. H.  
R. H.  
Δ. T. House  
Δ. T. House  
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A. T. Ω. House  
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<table>
<thead>
<tr>
<th>Name</th>
<th>City</th>
<th>House</th>
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</thead>
<tbody>
<tr>
<td>Robert Forsythe Eddy</td>
<td>Brookline, Mass.</td>
<td>H. H.</td>
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<tr>
<td>Aldo John Fasce</td>
<td>Adams, Mass.</td>
<td>H. H.</td>
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<td>Pittsfield, Mass.</td>
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<td>Lynn, Mass.</td>
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<td>Houlton</td>
<td>H. H.</td>
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<td>Raymond Stevens Grant</td>
<td>South Acton</td>
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<td>Portland</td>
<td>H. H.</td>
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<td>Hilton Cass Haines</td>
<td>Blandford, Mass.</td>
<td>Φ. Δ. Θ. House</td>
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<td>Caribou</td>
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<td>R. H.</td>
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<td>Arthur Moss Hathaway, Jr.</td>
<td>Glen Cove, N. Y.</td>
<td>Λ. X. A. House</td>
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<td>Bridgeport, Conn.</td>
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<td>Binghampton, N. Y. Δ. K. E. Ho.</td>
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<td>Van Buren</td>
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<td>Kendall Bassett Howard</td>
<td>Winslow</td>
<td>Winslow</td>
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<td>Carroll Wesley Keene</td>
<td>Clinton</td>
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<td>Millinocket</td>
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<td>H. H.</td>
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<td>Waterville</td>
<td>32 Morrill Ave.</td>
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<td>32 Morrill Ave.</td>
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Ralph Campbell Young

Farmington, L. X. A. House
Winthrop, H. H.
Waterville, 27 High St.
Brooklyn, N. Y., R. H.
Waterville, 25 Maple St.
Winthrop, R. H.
Clinton, H. H.
West Orange, N. J., Φ. Δ. Θ. House
Glen Cove, N. Y., R. H.
Waltham, Mass., A. T. O. House
Gorham, Ζ. Ψ. House
Franklin, H. H.
Waterville, 13 Morrill Ave.
Kansas City, Mo., Φ. Δ. Θ. House
Farmington, A. T. O. House
Winthrop, Λ. Χ. Α. House
Stratford, Conn., Φ. Δ. Θ. House
Bridgeport, Conn., H. H.
Woodland, H. H.
Bath, 19 Western Ave.
Pittsfield, Mass., Λ. Χ. Α. House
Waterville, River Road
Newport, Λ. Χ. Α. House
Woodfords, 26 Burleigh St.
Cambridge, Mass., H. H.
Sangerville, R. H.
Brooklyn, N. Y., R. H.
Waterville, The Melcher
East Millinocket, H. H.
Morrill, H. H.
Foxcroft, Λ. Χ. Α. House
Wytopitlock, Fairfield
Dalton, Mass., H. H.
Overlock, Pa., Ζ. Ψ. House

Jameis Francis Berry
James Harold Crowley
Harry John Frazier
Perrin Newell Freeman
Warren Leslie Frye

Jeffersonville, Vt., H. H.
Wytopitlock, H. H.
Worcester, Mass., 15 School St.
Revere, Mass., Λ. Χ. Α. House
Revere, Mass., Λ. Χ. Α. House
Students

Wilfred Freeman Gove    Brockton, Mass.  A. X. A. House
Theodore Roosevelt Hodgkins Farmington Falls  H. H.
Barney Morton Havey West Sullivan  R. H.
Oscar Ralph Johnson Monson  R. H.
Frederick Joseph Kinch Rumford  Δ. T. House
Alden Linwood Kittredge Waterville  55 Elm St.
John Nelson Laughton West Ripley  Δ. X. A. House
Hollis Wentworth Manning Boston, Mass.  Fairfield
Franklin Charles Matzek Revere, Mass.  Δ. X. A. House
Ellis Ford McLed Houlton  H. H.
Alfred Thomas Nardi Worcester, Mass.  H. H.
Eugene Cody Norton Fairfield  Fairfield
Donald Delmont Raymond Waterville  221 Main St.
Noel John Raymond Waterville  22 Summer St.
Waldo Florian Seifert Nashua, N. H.  Ζ. Ψ. House
Mark Edward Shay, Jr. Fall River, Mass.  Δ. K. E. House
Charles Edwin Thompson White Plains, N. Y.  H. H.
Fred August Tarbox Belmont, Mass.  Thayer Hall
Vincent Benjamin Toomey Auburn  235½ Main St.

GRADUATE STUDENT

Nathan Levine Waterville  24 High St.

The Women's Division

SENIORS—Class of 1922

Eleanor Clough Bailey Winthrop Centre  F. H.
Beatrice Persis Baker Bingham  F. H.
Ruth Marie Banghart Bradford, Vt.  F. H.
Avis Barton Westboro, Mass.  F. H.
Virginia Mary Bean West Minot  F. H.
Mary Brier Oakland  Oakland
Gladys Iva Briggs Littleton  F. H.
Edna Alice Briggs Littleton  F. H.
Annie Gilmour Burgess Portland  F. H.
Mary Dassie Carl Bingham  F. H.
Edna Marjorie Chamberlain Fort Fairfield  F. H.
Annie Fletcher Choate Waterville  2 Lawrence St.
Bertha Emily Cobb Waterville  19 Union St.
Dorothy Mae Crawford Pittsfield  F. H.
Hazel Angelia Drew North Hampton, N. H.  F. H.
Ruby Frances Dyer Skowhegan  F. H.
Elizabeth Josephine Dyer  
Hazel Goold Dyer  
Daphne May Fish  
Bertha Emily Gilliatt  
Eva Beatrice Glidden  
Ruth Goodwin  
Miriam Hardy  
Julia Frances Hoyt  
Edith Louise Harvey  
Louise Elizabeth Jacobs  
Catherine Dolley Larrabee  
Hannah Naomi Maher  
Emma Moulton  
Vina Beatrice Parent  
Hazel Beatrice Pratt  
Doris Irene Purington  
Helen Raymond  
Lorena Estella Scott  
Mildred Smiley  
Laura May Stanley  
Mary Anne Sweeney  
Mary Irene Whitcomb  
Dorothy Harmon White  
Clara Hammond Wightman  
Gertrude Glyndon Willey

Farmington  11 College Ave.
Portland  F. H.
Freeport  F. H.
Medford, Mass.  F. H.
Waterville  Clinton Ave.
Waterville  1 Thayer Court
Greenwich, Conn.  F. H.
Fairfield  F. H.
Dover  F. H.
Vassalboro  F. H.
Waterville  32 Morrill Ave.
Augusta  F. H.
North Hampton, N. H.  F. H.
Haynesville  F. H.
Caribou  F. H.
Houlton  F. H.
North Jay  F. H.
Harrington  F. H.
Waterville  Waterville
Mercer  70 Elm St.
Waterville  232 Main St.
Waterville  20 Western Ave.
Fort Fairfield  F. H.
Sanford  F. H.
Cherryfield  F. H.

JUNIORS—Class of 1923

Margaret Adelia Abbott  
Beulah Josephine Adams  
Ethel Mae Alley  
Madeline Doris Beach  
Velma Idella Briggs  
Marion Elvira Bibber  
Agnes Jessie Cameron  
Dorothy Mae Chaplin  
Mildred Regina Collins  
Vera Louise Collins  
Avis Marie Cox  
Helen Lucille Davis  
Marcia Louise Davis  
Doris Mary Dickey

Waterville  18 Pleasant St.  
Lubec  7 Nudd St.  
Waterville  219 Main St.  
Waterville  125 College Ave.  
Monticello  F. H.  
Richmond  F. H.  
Canton  M. L. H.  
Gorham  M. L. H.  
South Berwick  F. H.  
Fairfield  1 Boutelle Ave.  
Mars Hill  F. H.  
Oakland  Oakland  
Livermore Falls  F. H.  
Clinton  F. H.
<table>
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<tr>
<th>Students</th>
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<tr>
<td>Helen May Dresser</td>
<td>Portland</td>
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<tr>
<td>Marion Louise Drisko</td>
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<td>Ida Frances Jones</td>
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<td>Sybil Edna Williams</td>
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<td>Marion Doten Brown</td>
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<td>Celia Isadora Clary</td>
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<td>Cathryn Allen Cole</td>
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<td>Doris May Cole</td>
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<td>Ruth Veronica Cook</td>
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</table>
Ruth Evelyn Crowley  
Marion Louise Cummings  
Siprelle Riecker Daye  
Alta Susan Doe  
Anna Christina Isadora Erickson  
Zeetah Hazel Estey  
Ruth Fairbanks  
Ruth Fifield  
Mary Cowie Ford  
Margaret Thayer Gilmour  
Ewena Iolella Goodale  
Dorothy May Gordon  
Viora Mae Grasse  
Therese Louise Hall  
Ethel Harmon  
Katrina Ingrid Hedman  
Carolyn Lord Hodgdon  
Esther Martha Holt  
Vivian Mary Hubbard  
Bessie Levine  
Helen Frances Libby  
Louine Alberta Libby  
Esther Althea Lord  
Alice Eliza Manter  
Grace Marion Martin  
Alice Kathleen Nelligan  
Ruth Beatrice Pennock  
Helen Hoyt Pratt  
Ethel May Reed  
Marjorie Pullen Rollins  
Cecilia Agnes Simpson  
Pearl Burke Thompson  
Margaret Elsie Turner  
Mary Eileen Watson  
Mary Anne Haynes Whitten  
Alice Hilda Worthen  
Evangeline West York  

*Elizabeth City, N. C.*  
*Hebron*  
*Waterville*  
*Weeks Mills*  
*Middleboro, Mass.*  
*Waterville*  
*Winthrop*  
*Portland*  
*Lubec Hill*  
*Mars Hill*  
*Woodfords*  
*Limestone*  
*Albion*  
*Caribou*  
*Fremont*  
*South Berwick*  
*Clinton*  
*Skowhegan*  
*Waterville*  
*Portland*  
*Dover*  
*East Lebanon*  
*Oakland*  
*Randolph*  
*Waterville*  
*Waterville*  
*Corning, N. Y.*  
*Harmony*  
*Winthrop*  
*Waterville*  
*Lee*  
*Stonington*  
*Houlton*  
*Burnham*  
*Corinna*  
*Portland*  

**FRESHMEN—Class of 1925**

Elsie Cleveland Adams  
Phyllis Evelyn Bowman
Students

Eva Lucille Alley       Calais       M. L. H.
Carrie Valentine Baker  Portland       D. H.
Emily Mae Barrows       Waterville       14 Kelsey St.
Eleatha Clifford Beane  Lakeport, N. H.       M. L. H.
Hazel Pauline Berry     Island Falls       M. L. H.
Elsie Irene Bishop      Eastport       D. H.
Florence Marion Bowden  Waterville       R. F. D. 40
Caroline Ava Boyer     Waterville       84 Elm St.
Mildred Esther Briggs  Winthrop       D. H.
Marie Nitelle Buzzell   Oakland       Oakland
Louise Madeline Cates  East Vassalboro       M. L. H.
Ethel Almont Childs    Waterville       5 Sheldon Place
Katherine Mary Coyne    Waterville       23 West St.
Clair Alice Crosby     Milo       M. L. H.
Rosamond Grace Cummings Bellingham, Mass.       M. L. H.
Helen Elizabeth Davis  Newport       M. L. H.
Angela Mary Delaney    Waterville       24 Ash St.
Doris Belle Dow        Atkinson       Foster House
Lena Rumery Drisko      Jonesport       D. H.
Marjorie Eileen Everingham Portsmouth, N. H.       D. H.
Ruth Frances Futter    Waterville       2 Beacon St.
Donnie Campbell Getchell Pittsfield       F. H.
Doris Wentworth Hardy  Waterville       30 Pleasant St.
Flora Myers Harriman   Waterville       7 Dalton St.
Lenore Dorothy Hewett  Sanford       M. L. H.
Rowena Catherine Hillman Dover-Foxcroft       M. L. H.
Marion Johnson         Pittsfield       D. H.
Elizabeth Burrows Kingsley Hebron       D. H.
Winona Rowena Knowlton  Farmington       M. L. H.
Grace Carolyn Laughton  Harmony       D. H.
Marjorie E. Lebroke    Oxford       F. H.
Ethel Lindsay Littlefield  Waterville       16 Belmont Ave.
Ethel Pamela Mason     Waterville       3 High St.
Alice Bradford McDonald Portland       M. L. H.
Grace Frances McDonald  Portland       M. L. H.
Marion Merriam         Skowhegan       Foster House
Madeline Leone Miles    Newport       Foster House
Jennie Louise Nutter    Monson       M. L. H.
Nellie Elizabeth Nutter Hebron       D. H.
Madeline Winsor Rice    Manchester, N. H.       M. L. H.
Amy Viola Robinson     Lake View       Foster House
Bernice Chesbro Robinson Hartford, Conn. Foster House
Leota Estella Schoff South Paris M. L. H.
Marjorie Valentine Smiley Caribou Foster House
Ellen Achorn Smith Waldoboro D. H.
Florence May Smith Portland F. H.
Olive Marion Smith Winslow M. L. H.
Marjorie Sterling Augusta M. L. H.
Betty Tarrant Manchester, N. H. Foster House
Clarice Salome Towne Dover M. L. H.
Doris Julia Tozier Fairfield Fairfield
Avis Elvira Varnam Waterville River Road
Josephine Helen Warburton Lawrence, Mass. F. H.
Clara Martha Harthorn Waterville 23 Morrill Ave.
Helen Ernestine Weeks Newcastle F. H.

SPECIAL AND UNCLASSIFIED

Genevieve Mildred Clark Portland M. L. H.
Beulah Cook Newport D. H.
Mary Bingham Eastman Waterville 109 Silver St.
Elizabeth May: Brighton, Mass. F. H.
Eertha Mildred Otto Lawrence, Mass. D. H.
Beatrice Annie Simpson Ashland M. L. H.
Helen Worsten Springfield Waterville 52 Pleasant St
Mildred Alice Thyng Fairfield Fairfield
Margaret Elizabeth White Augusta M. L. H.
Madeline Pauline Woodworth Fairfield

Summary

OFFICERS OF INSTRUCTION

Faculty ............................................................... 28

STUDENTS

<table>
<thead>
<tr>
<th>Class</th>
<th>Men</th>
<th>Women</th>
<th>Total by Classes</th>
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<tr>
<td>Seniors</td>
<td>42</td>
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HONORS AND PRIZES AWARDED 1920-1921

THE MEN'S DIVISION

Class of 1921

COMMENCEMENT. Prize for excellence in English Composition, Harold C. Marden.

MEMBERS OF THE PHI BETA KAPPA. Stanley Roberts Black, Harold Chesterfield Marden, Reginald Houghton Sturtevant, Joel Erastus Taylor, Jr., Roland George Ware.

Class of 1922

JUNIOR EXHIBITION. First Prize, George B. Wolstenholme; Second Prize, Clifford Peaslee.

Class of 1923

SOPHOMORE DECLAMATION. First Prize, Lloyd Jordan Treworgy; Second Prize, Frederick Gardiner Fassett, Jr.

Class of 1924

FRESHMAN READING. Hamlin Prizes, First Prize, Tilson F. Maynard; Second Prize, Verne E. Reynolds.

FRESHMAN SCHOLARSHIP PRIZES. First Prize, Ralph D. McLeary; Second Prize, Verne E. Reynolds.

German Prizes

Prizes for excellence in German: First Prize, and Second Prize divided between Herbert A. Perkins, '22, and Joseph C. Smith, '24.

Greek Prizes

FOSTER MEMORIAL PRIZE. For excellence in the interpreting of Greek Authors: Not awarded.

Lyford Prizes for 1920-1921

Murray Debating Prizes for 1920-1921


Hallowell Prizes for 1920-1921

First Prize, J. Hardy Patten, '23; Second Prize, Floyd T. McIntire, '23; Third Prize, Basil B. Ames, '23; Fourth Prize, Arthur L. Berry, '23.

Goodwin Prizes for 1920-1921

First Prize, Harold C. Marden, '21; Second Prize, Samuel Pinonsky, '23; Third Prize, William F. Cushman, '22; Fourth Prize, Ashley D. Bickmore, '22.

The Albion W. Small Prizes for 1920-1921

First Prize, Galen Eustis, '23; Second Prize, Fred H. Eastman, '22; Third Prize, Alice Ford Page, '21.

THE WOMEN'S DIVISION

Class of 1921

Commencement. Prize for excellence in English Composition, Adelle M. McLoon.


Class of 1922

Junior Exhibition. First Prize, Annie G. Burgess; Second Prize, Hannah Naomi Maher.

Class of 1923

Sophomore Declamation. First Prize, Melva Mercedes Mann; Second Prize, Thelma Abbie Powers.
Class of 1924

Freshman Reading. Hamlin Prizes. First Prize, Alice Eliza Manter; Second Prize, Viola Florilla Jodry.

Freshman Scholarship Prizes. First Prize, Marion Doten Brown; Second Prize, Anna Christina Isadora Erickson.

German Prizes

Prizes for excellence in German: First Prize, Ida F. Jones, '24; Second Prize, Beatrice P. Baker, '22; Honorable Mention, Lucy M. Osgood, '23.

Greek Prizes

Foster Memorial Prize. For excellence in the interpreting of Greek Authors. Not awarded.

Coburn Prizes

First Prize, Grace Ruth Foster, '21; Second Prize, Elva Christine Tooker '21; Third Prize, Addarena Jane Lightbody, '23.
PROGRAM OF ONE HUNDREDTH ANNUAL COMMENCEMENT OF THE COLLEGE

Wednesday, June 22, 1921

ORDER OF EXERCISES

Music Prayer Music
Harold Chesterfield Marden . . . Education and Infinite Progress
Adelle Medora McLoon . . . . . . The College Woman in the Twentieth Century
Donald Arthur Shaw . . . . . . . Education and Leadership

Music

COMMENCEMENT ADDRESS by Franklin Winslow Johnson, L.H.D., of the Class of 1891.

Conferring of Degrees
Awarding of Prizes
Benediction

Honors in General Scholarship

THE MEN'S DIVISION

Magna Cum Laude
Stanley Roberts Black
Harold Chesterfield Marden
Reginald Houghton Sturtevant

Cum Laude
Joel Erastus Taylor, Jr.
Roland George Ware

THE WOMEN'S DIVISION

Magna Cum Laude
Marjorie Wagner Hornung
Dorothy Rounds
Elva Kathleen Goodhue
Grace Ruth Foster
Adelle Medora McLoon
Grace Evelyn Wilder
Degrees Conferred

Cum Laude

Clara Whitehouse Carter        Frances Bradbury
Linna Caroline Weidlich        Laura Virginia Baker
Irene Shirley Gushee           Ruth Elizabeth Mosher
Elva Christine Tooker          Geraldine Thurlow Baker
Bernice Brown Butler

FOR MARKED DISTINCTION IN PUBLIC SPEAKING

Norman Dunham Lattin           Donald Arthur Shaw

FOR MARKED DISTINCTION IN FRENCH

Alice Louise Dyer

Degrees Conferred in 1921

BACHELOR OF ARTS

The Men's Division

Stephen Hager Ayer............... Waterville
Andrew Maine Bacigalupo........... Reading, Mass.
Stanley Roberts Black............. Waterville
Chauncey Luke Brown.............. Waterville
William Emery Burgess............. Fairfield
William Cheney Dudley............. South Berwick
Llewellyn Smith D unnack......... Augusta
John William Greene.............. Bluehill
Everett Hayward Gross............ Searsport
Daniel Ray Holt.................. Clinton
Lewis Levine...................... Waterville
Nathan Levine........................ Waterville
Charles Archie Mitchell.......... Haynesville
Ransom Pratt........................ Corning, N. Y.
Libby Pulsifer.................... Skowhegan
Berton Lake Seekins.............. Stonington
Donald Arthur Shaw.............. Clinton
Vernon Guy Smith.................. Washburn
Raymond Harris Spinney.......... South Eliot
Reginald Houghton Sturtevant ............... Livermore Falls
Joel Erastus Taylor, Jr. ...................... Skowhegan
John Harrison Tobey ........................ Waterville

AS OF THE CLASS OF 1918

Norman Dunham Lattin ...................... Corning, N. Y.

The Women’s Division

Pauline Wheeler Abbott ...................... Waterville
Geraldine Thurlow Baker ..................... Bingham
Laura Virginia Baker ....................... Bingham
Esther Blanchard .......................... Roxbury, Mass.
Frances Bradbury .......................... Cheshire, Conn.
Clara Whitehouse Carter .................... Jefferson
Bessie Merritt Chadwick ................... Athol, Mass.
Alice Helen Clark .......................... Caratunk
Marion Louise Conant ...................... Fort Fairfield
Alice Louise Dyer .......................... Charleston
Doris Beryl Fernald ....................... East Boothbay
Grace Ruth Foster ........................ Buffalo, N. Y.
Isabel Wight Genthner ..................... Guilford
Elva Kathleen Goodhue ..................... Fort Fairfield
Doris Tolman Gower ....................... Skowhegan
Irene Shirley Gushee ......................... Appleton
Marjorie Wagner Hornung .................. Flushing, N. Y.
Helen Jane Leota Jacobson ................. Bath
Grace Wilma Johnson ...................... Gorham
Dorothy Emma Knapp ....................... Danbury, N. H.
Adelle Medora McLoon ..................... Houlton
Ruth Frances Means ...................... Biddeford
Dorothy Grant Mitchell ................... Houlton
Ruth Elizabeth Mosher ................... Wilton
Bertha Edith Norton ....................... Anson
Florence Mae Preble ....................... Waterville
Mary Margaret Rice ....................... Waterville
Dorothy Rounds .......................... Woodfords
Elva Christine Tooker .................. Caribou
Catherine Almira Tuttle .................. Limerick
Degrees Conferred

37

Elizabeth Rebecca Whipple ........................................ Waterville
Grace Evelyn Wilder .................................................. Wilton

BACHELOR OF SCIENCE

The Men's Division

Ernest Adelbert Adams, Jr. ........................................ Whitinsville, Mass.
Bernal Dana Bailey .................................................. Livermore Falls
Paul Hollis Bailey .................................................... Winthrop
Howard Merle Barnum ................................................ Corning, N. Y.
Arthur James Brimstine ............................................. Oakland
Paul Lester Brooks ................................................... Auburn
Robert Daniel Conary ................................................ Sunshine
Clark Drummond ....................................................... Waterville
Tun Fu Dzen ............................................................ Chekiang, China
Bernard Elias Esters ................................................ Houlton
Thomas Gerard Grace ................................................ Brooklyn, N. Y.
Charles Reginald Hersum .......................................... Waterville
Joseph Edward Little, Jr. .......................................... New London, Conn.
Harley Perham Mairs ................................................ Oakland
Harold Chesterfield Marden ....................................... East Vassalboro
Philip Healey Merchant ............................................. Fairfield
Wayne Whitten McNally ............................................. Clinton
Arthur Ray Mills ........................................................ Monticello
Edward Coburn Niles ................................................. Boston, Mass.
William Joseph Pollock ............................................. Waterville
Frederick Jones Pope ................................................ Vassalboro
Ashton Farnham Richardson ....................................... Fairfield
Harold Melvin Sachs ................................................ Brooklyn, N. Y.
Donald Oscar Smith .................................................. Waterville
Phil Thaddeus Somerville ........................................... Houlton
Chin Foh Song .......................................................... Shaoshing, China
Milford Isaac Umphrey .............................................. Washburn
Roland George Ware ................................................ Waterville
John Franklin Waterman ............................................. Belfast
Samuel Wolman ........................................................ Waterville

AS OF THE CLASS OF 1918

Francis Paul Gateley ................................................. Waltham, Mass.
Wallace Gerry Hastings...............................Suffield, Conn.
Fred Knowlton Hussey.................................Newtonville, Mass.
Alfred Hopkins Patterson..............................Attleboro, Mass.
Charles Hermes Piebes................................Niagara Falls, N. Y.
Paul Allison Thompson.................................Woodhaven, L. I., N. Y.
Clifton Marcellus Tracy...............................Houlton

The Women's Division

Merle Evelyn Davis.................................Portsmouth, N. H.
Clara Ida Gamage....................................South Bristol
Alice Ford Page......................................Plymouth, N. H.
Hazel Winifred Peck................................Winthrop
Sarah Elizabeth Smith..............................Houlton
Linna Caroline Weidlich............................Warehouse Point, Conn.
Elfrieda Marie Whitney..............................Houlton

HONORARY DEGREES

Doctor of Divinity

Addison Benjamin Lorimer (1888)....................Portland
Joseph Leishman Peacock............................Raleigh, N. C.
ADMISSION REQUIREMENTS

Candidates for admission to the Freshman Class must present satisfactory qualifications in the following subjects, according to the specifications given under each subject and in accordance with the provisions concerning required and optional subjects which are given in the summary below.

BIOLOGY

Biology may be presented for entrance in one of three ways:

1. A year's work in Botany, consisting of five hours a week, including the subjects covered by Bergen's Foundations of Botany, or its equivalent.

2. A year's work in Zoology, consisting of five hours each week, including the subjects covered by such a book as Davenport's Introduction to Zoology, or its equivalent.

3. A year's work in Biology, consisting of a half-year's work in Botany, and a half-year's work in Zoology. Davison's Practical Zoology includes the amount expected for Zoology, and Bergen's Elements of Botany the amount desired for Botany.

A laboratory notebook, certified to by the teacher, must be presented. The notebook must contain carefully labeled diagrams of forms studied and notes made both in the laboratory and in the field. The laboratory time should include about three-fifths of all the time spent in the course, and living forms should be studied so far as possible. It is desired that these forms be found in the locality where the work is given. The greatest stress should be laid on the macroscopic features and little or no microscopic work will be expected. A herbarium will not be accepted in lieu of a notebook.

CHEMISTRY

A course in Chemistry of five hours a week for one year, equivalent to the work contained in any standard text-books written for preparatory schools.

The student will also be required to present at the time of entrance a notebook guaranteed by the teacher, containing the record of not less than forty experiments performed by himself under the direction of the teacher. The notebook should be presented at the Registrar's office at the time of entrance.
Qualitative analysis will not be accepted as an equivalent for laboratory work prescribed.

Candidates for advanced standing are examined only at Waterville, and at the time of the entrance examinations.

ENGLISH

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

English Grammar and Composition

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of whole composition, including letter-writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argumentation based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitation and various exercises whether oral or written.

Literature

The second object is sought by means of two lists of books, headed respectively reading and study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their places in literary history.
A. READING AND PRACTICE.

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

FOR STUDENTS ENTERING IN 1922, the books for Reading and Practice are arranged in the following groups, from each of which at least two selections are to be made, except that for any book in Group 1 a book from any other may be substituted.

GROUP 1. CLASSICS IN TRANSLATION.—The Old Testament, at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I-V, XV, and XVI; the Aeneid. (The Odyssey and the Aeneid should be read in English translations of recognized literary excellence.)

GROUP 2. DRAMA.—Shakespeare’s Merchant of Venice; As You Like It; Julius Caesar.

GROUP 3. PROSE FICTION.—Dickens’s A Tale of Two Cities; George Eliot’s Silas Marner; Scott’s Quentin Durward; Hawthorne’s The House of the Seven Gables.

GROUP 4. ESSAYS, BIOGRAPHY, ETC.—Addison and Steele’s The Sir Roger de Coverley Papers; Irving’s The Sketch Book—selections covering about 175 pages; Macaulay’s Lord Clive; Parkman’s The Oregon Trail.

GROUP 5. POETRY.—Tennyson’s The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur; Browning’s Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, “De Gustibus—,” Instans Tyrannus; Scott’s The Lady of the Lake; Coleridge’s The Ancient Mariner; and Arnold’s Sohrab and Rustum.

B. STUDY AND PRACTICE:

This part of the requirement is intended as a natural and logical continuation of the student’s earlier reading, with greater
stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

The books provided for Study and Practice are arranged in four groups, from each of which one selection is to be made.

**GROUP 1. DRAMA.**—Shakespeare’s Macbeth, Hamlet.

**GROUP 2. POETRY.**—Milton’s L’Allegro, Il Penseroso, Comus; Book IV of Palgrave’s Golden Treasury (First Series), with special attention to Wordsworth, Keats, and Shelley.

**GROUP 3. ORATORY.**—Burke’s Speech on Conciliation with America; Washington’s Farewell Address, Webster’s First Bunker Hill Oration, and Lincoln’s Gettysburg Address.

**GROUP 4. ESSAYS.**—Macaulay’s Life of Johnson; Carlyle’s Essay on Burns, with a brief selection from Burns’s Poems.

**Examination**

The examination will be divided in two parts, one of which may be taken as a preliminary, the other as a final. The first part of the examination will be upon the books required for Reading and Practice and may include questions upon grammar and the simpler principles of rhetoric. The second part of the examination will test the candidate’s knowledge of the books required for Study and Practice, also his ability to develop a theme through several paragraphs. Subjects will be drawn from books required for Study and Practice, from the candidate’s other studies, and from his personal knowledge and experience quite apart from reading.

**FRENCH**

**Elementary French.**

The work to be done the first year should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plurals of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with con-
Admission Requirements

stant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproduction from memory of sentences previously read; (5) writing French from dictation.

During the second year, the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, of pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: Bruno’s “Le tour da la France”, Daudet’s easier short tales, La Bédollière’s “La Mère Michel et son chat”, Erckmann-Chatrian’s stories, Foa’s “Contes biographiques” and “Le petit Robinson de Paris”, Foncin’s “Le pays de France”, Labiche and Martin’s “La poudre aux yeux” and “Le voyage de M. Perrichon”, Legouvé and Labiche’s “La Cigale chez les fourmis”, Malot’s “Sans famille”, Mairet’s “La tâche du petit Pierre”, Mérimé’s “Columba”, extracts from Michelet, and Verne’s stories.

Advanced French.

During the third year the work should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About’s stories, Augier and Sandeau’s “Le Gendre de M. Poirier”, Béranger’s poems, Daudet’s “Le petit Chose”, Coppée’s poems, La Brète’s “Mon oncle et mon curé”, Halévy’s “L’abbé Constantin”, Labiche’s plays, Loti’s “Pêcheur d’Islande”, Michelet’s “Jeanne d’Arc”, Molière’s “L’Avare”, and “Le bourgeois gentilhomme”, George Sand’s stories, Sandeau’s “Mademoiselle de la Seiglière”, Scribe’s plays, Vigny’s “La canne de jone”.
GERMAN

FIRST YEAR. Pronunciation; memorizing and frequent repetition of easy colloquial sentences; grammar: article, commonly used nouns, adjectives, pronouns, weak verbs and more usual strong verbs, more common prepositions, simpler uses of modal auxiliaries, elementary rules of syntax and word-order; abundant easy exercises in composition; 75-100 pages of graduated texts from a reader; constant practice in translating into German easy variations of text; and reproductions from memory of sentences from text.

SECOND YEAR. Continued drill on rudiments of grammar; 150-200 pages of easy stories and plays; continued translation into German of easy variations of matter read; and offhand reproduction, orally and in writing.

The following texts are recommended: (1) Andersen’s Märchen or Bilderbuch, or Leander’s Träumereien, about forty pages; (2) Hauff’s Das kalte Herz or Zschokke’s Der zerbrochene Krug; (3) HilKer’s Höher als die Kirche, or Storm’s Immensee; (4) a short story from Heyse or Baumbach or Seidl; (5) Benedix Der Prozess.

THIRD YEAR. Grammar: less usual strong verbs, use of articles, cases, auxiliaries, tenses and moods (particularly the infinitive and subjunctive), word-order and word formation; about 400 pages of moderately difficult prose and poetry; constant practice in paraphrases, abstracts and memory reproductions of passages read.

The following texts are recommended: (1) Chamisso’s Peter Schlemihl; (2) a part of Freytag’s Bilder aus der deutschen Vergangenheit; (3) a part of Fouqué’s Undine, or a part of Schiller’s Geisterseher; (4) a short course in Lyrics and Ballads; (5) one classical play by Goethe, or Schiller, or Lessing.

GREEK

READING. Xenophon’s Anabasis, Books I-IV. Homer’s Iliad, Books I-III. Equivalent readings will be accepted.

PROSE COMPOSITION. The equivalent of one period a week for two years.

Teachers in the preparatory schools are urged to give particular attention to securing in their pupil (1) by constant drill upon inflections, analysis of forms, mood and tense synopses and
principal parts, a mastery of the verb; (2) the habit of noting
the derivation and composition of words and the primary mean­
ings contained therein; (3) the ability to attack intelligently
and translate at sight the simpler passages of Xenophon and of
Homer, the aim being to encourage the student away from a
slavish dependence upon lexicon or vocabulary; and (4) above
all else, the habit of using simple and idiomatic English in
translation. As a helpful means to this last end, it is recom­
mended that occasionally written translations be required, and
that these be thoroughly discussed and criticised by teacher and
class.

HISTORY

GREEK AND ROMAN HISTORY.

1. Greek History to the death of Alexander, with due refer­
ence to Greek life, literature and art.

2. Roman History to the accession of Commodus, with due
reference to literature and government.

As a preparation in Greek and Roman History, a course of
study equivalent to five hours per week for one year will be
necessary, and it will count one unit. The preparation of such
a course will call for such general knowledge of each field as
may be acquired from the study of an accurate text-book of
about 300 pages, in each subject, supplemented by parallel
readings, to a similar amount. Due attention should be paid to
geography and the preparation of outline maps, and the effort
should be made to train the judgment as well as the memory of
the student, and to develop comparisons between historical
characters and periods; and to require some form of written
work, such as abstracts of reading, analyses of the text-book, to
develop such faculties.

The following books are recommended for use in the schools:

Greek History.—Either Myers’ or Botsford’s or Oman’s or
Morey’s History of Greece, or Breasted’s Ancient Times, or
West’s Ancient History; Plutarch’s Lives, or other good
authorities.

Roman History.—Either Allen’s Short History of the Roman
People, or Botsford’s or Meyers’ or Morey’s History of Rome, or
Breasted’s Ancient Times, or West’s Ancient History; with ad­
ditional readings in Plutarch’s Lives, Ihne’s Early Rome,
Froude’s Cæsar, or other authorities.
ENGLISH AND AMERICAN HISTORY.

1. English History, with due reference to social and political development.
2. American History, with the elements of Civil Government.

The requirements as to quality and methods of work are the same as those prescribed for the courses in Greek and Roman History.

The following books are recommended:

1. English History.—Cheyney’s or Andrews’ or Larson’s or Larned’s or Coman and Kendall’s History of England, or Montgomery’s English History, or Walker’s Essentials in English History; with additional readings in Green’s History of the English People, Gardiner’s Students’ History of England, Creighton’s Age of Elizabeth, Macaulay’s History of England, or other authorities.

2. American History.—Johnston’s or Fiske’s or Channing’s History of the United States, or Hart’s Essentials in American History; with additional readings in Lodge’s English Colonies in America, Higginson’s History of the United States, the works of Parkman, Fiske, the “American Statesmen” series, or other authorities.

LATIN

READING. Cæsar’s Gallic War, Books I-IV; or Books I-III, and Sallust Catiline.

Cicero, seven Orations; or, the Orations against Catiline, the Oration for Archias, and two thousand lines of Ovid’s Metamorphoses.

Vergil’s Æneid, Books I-VI; or Eclogues and Æneid, I-IV.

Translations, at sight, of ordinary passages from Cæsar, Cicero’s Orations, Vergil’s Æneid, and Ovid’s Metamorphoses. Instructors in the preparatory schools are urged to insist upon the use of simple and idiomatic English in the translation of Latin.

PROSE COMPOSITION. The equivalent of at least one period a week for three years in Prose Composition.

MATHEMATICS

Thorough drill in Arithmetic is of vital importance in the study of Mathematics. It is assumed that facility in the use of integral and fractional numbers has been acquired in the lower
Admission Requirements

grades, and that such topics as decimals, percentage, square and cube root, have been covered in the high school course.

**ALGEBRA.** The fundamental operations; factoring, including the finding of the highest common factor and lowest common multiple; solution of simultaneous equations of the first degree in two or more variables; the changing of questions into equations; radicals and exponents, solution of quadratic equations by completing the square, and by factoring; problems depending on quadratic equations; ratio and proportion; arithmetical and geometrical progressions; the binomial theorem for positive integral exponents.

**PLANE GEOMETRY.** The theorems and constructions of good text-books; emphasis is laid on simple exercises.

**ADVANCED MATHEMATICS.** Students offering Advanced Mathematics for admission to college will be expected to present one or more of the following subjects: Advanced Algebra, including higher quadratic equations, binomial formula for any exponent, logarithms, series, determinants, the complex number and the theory of equations; Plane Trigonometry as treated by the usual text-books; Solid Geometry, including the theorems and exercises of the best text-books, mensuration of solids, and demonstration of simple original theorems.

**PHYSICS**

A year's work in Physics, five hours a week, covering the subject as presented in Millikan and Gale's First Course in Physics, Black and Davis’s Practical Physics, or some equivalent text-book. A note-book containing the complete record of not less than thirty experiments performed by the student, must be presented for examination. At least one-half of these experiments must be quantitative in their character. The note-book should be vouched for in writing by the instructor, and should be presented at the time of entrance.

**PHYSIOGRAPHY**

A course of five hours a week for one-half year, covering the subject as presented in Davis's Elementary Physical Geography or an equivalent text-book, with practical work in the laboratory or field, preferably in both. A note-book showing an intelligent record of observation study, certified to in writing by the instructor, must be presented on entrance.
PHYSIOLOGY

Students presenting Physiology for entrance must have completed a half-year's work in that subject. Such work should include a general study of the structures of the body, the organs and their functions, and the processes and methods of growth, as given in Blaisdell's Physiology, or its equivalent.

TERMS OF ADMISSION

Candidates for admission to the Freshman class must offer studies amounting to a total of fourteen and one-half units. To count one unit a subject must be pursued for one school year, with five recitation periods a week.

B. A. COURSE

The subjects required of those students who enter the B.A. Course, count ten and one-half units; the remaining four units being chosen from the optional subjects.

If Greek is not presented for admission, French or German must be; and if a modern language is chosen, not less than two years' work, counting two units, will be accepted.

B. S. COURSE

The subjects required of those who enter the B.S. Course, count five and one-half units; the remaining nine units being chosen from the optional subjects. But candidates for the B.S. Course must choose from the optional subjects two years of a modern language, one year of science, and one year of history.

B. A. COURSE

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<th>Required</th>
<th>Units</th>
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<tr>
<td>English</td>
<td>3</td>
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<td>Latin</td>
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<td>†Algebra</td>
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<td>†Plane Geometry</td>
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<td>§History</td>
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B. S. COURSE

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<td>1</td>
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</tbody>
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Admission Requirements

Optional

Greek, each year...... 1
French, 2 years....... 2
German, 2 years....... 2
Greek History ......... ½
English History....... ½ or 1
American History..... ½ or 1
Physics ............... 1
Chemistry ............. 1
Solid Geometry ....... ½

Optional

Solid Geometry....... ½
Advanced Mathematics. 1
French, 2 years....... 2
German, 2 years....... 2
Latin, each year....... 1
Greek, each year ...... 1
Greek History ....... ½
Roman History ....... ½
English History...... ½ or 1
American History..... ½ or 1
Physics ............... 1
Chemistry ............. 1
Biology ............... 1
Physiology ........... ½ or 1

†If three full years of Plane Geometry and Algebra have been taken, credit of three units will be allowed.
§The candidate must present one-half unit in Roman History; the other is to be selected from the optional histories.
*Each additional year counts one unit.
*Counts one unit, if studied for a full year.

Spanish, Mechanical Drawing, Manual Training and other preparatory subjects not named in the above lists, will be referred for credit to the committee on entrance examinations.

SPECIAL STUDENTS

At the discretion of the Faculty, students will be received to pursue special courses, provided they satisfy the instructors of such courses of their earnestness of purpose and their ability to pursue successfully the college studies they elect.

No special student is admitted to regular course except by certificate or examination; no special student is allowed to continue such more than two years; and no special student is allowed to take part in intercollegiate athletics.

METHODS OF ADMISSION

1. BY EXAMINATION

Candidates for admission will be received on passing preliminary and final examinations in the required and optional sub-
jects prescribed for entrance (p. 48-49). Candidates who desire to do so may enter on passing complete examinations at one time in four fundamental subjects, and presenting principal’s statement covering the remainder of the units prescribed for admission; for the B.A. Course the subjects are English, Latin, Mathematics, and one optional subject; for the B.S. Course, English, French or German, Mathematics, and one optional subject.

(A) At the College

Examinations for admission are held on the Tuesday and Wednesday preceding Commencement. Candidates will assemble at 8 A.M., Tuesday, June 13, at Chemical Hall. Examinations for admission are also held at the opening of the first semester, September 19-20, 1922.

(B) At Preparatory Schools

Examination papers in all the required and optional subjects for admission to Colby (p. 48-49) will be furnished to the principal of any high school or academy of good standing for such of his pupils as wish to take examinations for admission to college. These examinations will be held in 1922 on May 23-24.

Applications for papers should be made to the Registrar and must be received not later than May 18. With the papers will be sent directions about the manner of conducting the examinations.

Examinations in admission subjects may be taken by candidates at the end of the second and third years of the preparatory school course. Examinations will not be given, however, on less than two years of English, French, or German.

(C) For Advanced Standing

Candidates for advanced standing are examined in the preparatory studies, and in the various studies that have been taken by the classes which they wish to enter. Those who are admitted from other colleges must present certificates of regular admission.

2. BY CERTIFICATE

Entrance certificates will be received from such schools in New England as are approved by the College Entrance Certificate Board. The associated colleges are Amherst, Bates, Bos-
Admission Requirements

All schools desiring the certificate privilege should apply before April 1st of each year to the Secretary of the Board, Professor Frank W. Nicholson, Wesleyan University, Middletown, Conn.

Candidates for admission who can secure certification in only a part of the entrance requirement will be permitted to take examinations on other preparatory subjects which they have successfully completed but with too low a grade for certification.

It is understood that students admitted on certificate are on probation for the first semester, during which they must prove their ability to do college work as a necessary condition of their continuing with the class.

REQUIREMENTS FOR GRADUATION

1. PRESCRIBED AND ELECTIVE COURSES

FRESHMAN YEAR. Candidates for the B.A. degree are required to take Mathematics 1, 3 or 2, 4; Public Speaking 1, 3; Bibliography A; Latin 1, 3 or 2, 4, if Greek 5, 6 is not substituted. Greek 5, 6, if Latin 1, 3 or 2, 4 is not substituted.

Candidates for the B.S. degree are required to take Mathematics 1, 3 or 2, 4; Public Speaking 1, 3; Bibliography A; Physics 1, 3 or 2, 4.

Candidates for the B.A. or B.S. degree will be required to elect eighteen (18) semester-hours, in addition to the hours prescribed above, from the following courses open to Freshman students:

| Biology 1, 2 | French 5, 7 or 6, 8 | Greek 5, 6 |
| Chemistry 1, 2 | Geology 1, 2 | Latin 1, 3 or 2, 4 |
| Drawing 1, 2 | German 1, 3 or 2, 4 | Physics 1, 3 or 2, 4 |
| French 1, 2 | German 5, 6 | Rhetoric 1, 3 or 2, 4 |
| French 3, 4 | Greek 1, 2 | Spanish 1, 2 |

SOPHOMORE YEAR. Candidates for the B.A. degree are required to take (1) the first year of Rhetoric (Rhetoric 1, 3 or
2, 4) if not taken in the Freshman Year; (2) the first year of German (German 1, 3 or 2, 4), or French (French 1, 2), or Spanish (Spanish 1, 2), but with this restriction, namely, that a language shall be taken which has not been offered for admission.

Candidates for the B.S. degree are required to take the same courses as prescribed for Candidates for the B.A. degree, except that Chemistry 1, 2 is required unless taken in the Freshman Year.

Candidates for the B.A. or B.S. degree will elect additional hours required from such courses open to Sophomores as are found listed under Courses of Instruction.

JUNIOR YEAR. Ten courses, all elective.

SENIOR YEAR. Ten courses, all elective.

Note: A student who has not completed sufficient work in Latin to satisfy the entrance requirement of four years in that subject, but desires to pursue the course leading to the degree B.A., may do so by electing three years of Greek in college (one year in addition to the two years of Elementary Greek).

2. SEMESTER-HOURS

Beginning with the class of 1923, a total of one hundred and twenty-two (122) semester hours will be required for a degree. Freshmen students will be required to take 32 semester-hours, and Sophomores, Juniors, and Seniors, 30 semester-hours.

3. GROUPS

The work of the Sophomore, Junior, and Senior years is arranged in three fields or groups as follows:

A. Language and Literature.

B. History, Economics, and Philosophy. (This group includes Art.)

C. Mathematics, and the Physical and Natural sciences.

Important Note: In addition to the work specifically stated as "required," each candidate for graduation must take, during his period of study, at least two one-year courses in Group A, one one-year course in Group B; and, if a candidate for the degree B.S., one one-year course in Group C, or, if a
Admission Requirements

Candidate for the degree B.A., two one-year courses in Group C.

4. MAJOR SUBJECTS

For the class of 1922 and all subsequent classes, the following is the administrative requirement:

Candidates for the B.A. or B.S. degree will be required to complete before graduation a minimum of eighteen semester hours of a major subject, the work to be arranged with the advice of the head of the department in which the major subject is to be taken and begun only after his approval has been gained. The election of a major subject must be made at the time of the election of Sophomore courses.

NOTE: French 1, 2, German 1, 3 or 2, 4, Rhetoric 1, 3 or 2, 4, Spanish 1, 2, and Greek 1, 2 shall not count among major subjects.

In addition to the major subject a minimum of twelve semester-hours must be taken in one of the two Groups (3) in which the major subject does not appear.
COURSES OF INSTRUCTION

Note: Courses in brackets are not given for the current year, 1921-1922.

ASTRONOMY

ASSOCIATE PROFESSOR TREFETHEN

Instruction in Astronomy is given in Shannon Observatory. Equipment includes a very complete and excellent set of lantern slides,—many of them direct telescopic photographs of celestial objects,—photographs and drawings, a celestial sphere, a sextant, a terrestrial telescope and an equatorial instrument with four-inch objective mounted in the observatory, provided with a solar and a filar micrometer eyepiece.

1. GENERAL ASTRONOMY. First Semester: Tuesday, Thursday, Saturday, 8.

Elective for Juniors and Seniors.

2. GENERAL ASTRONOMY. Second Semester: at the same hours.

Continuation of Course 1.
Elective for those who have completed that course.

BIBLICAL LITERATURE

PRESIDENT ROBERTS, PROFESSORS WHITE, LIBBY, HANNAY, TREFETHEN, BROWN, AND MORROW

1. BIBLE STUDY. The course attempts to give to students a knowledge of the contents of the Bible itself, with some study of its historical and geographical background. First Semester: Tuesday, 3.30-5.
Courses of Instruction

Elective for such students as are able to carry more than the required number of Courses.

2. BIBLE STUDY. Continuation of Course 1. Second Semester: Tuesday, 3.30-5.

Elective for such students as are able to carry more than the required number of courses.

Courses 1 and 2 will count as one semester course of three hours.

BIBLIOGRAPHY

PROFESSOR CHIPMAN

A. THE USE OF THE LIBRARY: individual instruction in the use of the catalogue, periodicals, indices, and reference books. Required of all Freshmen, both Divisions. First Semester: four periods at the convenience of the Librarian and the student.

1. BOOKS AND THEIR MAKERS: libraries ancient and modern; cataloguing, classification, and the making of bibliographies. Text-books, assigned readings, lectures, and practice work in the Library. First Semester: three periods a week at the convenience of the Librarian and the class.

Elective for a limited number of Juniors and Seniors.

The aim of this course is not to prepare students for library work but to give them such a knowledge of library science as will be of practical value in teaching, professional study, or business.

2. CONTINUATION OF COURSE 1. Second Semester: three periods a week.

Elective for those who have completed Course 1.

BIOLOGY

PROFESSOR CHESTER

1. BIOLOGY. Lectures, recitations and laboratory exercises. First Semester: Wednesday, Friday at 10; Laboratory Divisions, Monday, 10-12, Tuesday, 1.30-3.30.

Elective for Freshmen, Sophomores, and Juniors.

2. BIOLOGY (Continued). Second Semester: at the same hours.
Elective for those who have completed Biology 1. Courses 1 and 2 are designed to acquaint students with the general biology of both the animal and plant organism. In them are studied the characteristics and physiology of protoplasm; cell structure and tissue differentiation; the anatomy, development and physiology of organisms; their distribution and relation to the environment and to each other. A brief survey of the theories of evolution and the methods of heredity are also included.

1. ZOOLOGY: EVOLUTION AND GENETICS. First Semester: Tuesday, Thursday, Saturday, 8; Laboratory hours, Thursday.

   This course is designed to introduce the student to the theoretical side of Biology. In it are studied the various factors that contribute toward the proof of evolution and some of the various theories that go to explain evolution. The subject of variations and the facts and theories of heredity will occupy a portion of the course.

   Elective for those who have taken Biology 1 and 2.

   Given in alternate years.

2. ZOOLOGY. Second Semester: at same hours; Laboratory hours, Thursday.

   The anatomy, physiology and classification of animals. Typical representatives of the various groups will be taken in the laboratory.

   Elective for those who have taken Biology 1 and 2.

   Given in alternate years.

3. VERTEBRATE ANATOMY AND DEVELOPMENT. First Semester: Monday, Wednesday, Friday, 8-10.

   Elective for Juniors and Seniors who have taken Biology 1 and 2.

4. VERTEBRATE ANATOMY AND DEVELOPMENT. Continuation of Course 3. Second Semester: at the same hours.

   The study of the mammal is used to illustrate vertebrate structure. Explanation of the various parts is made clearer by comparison with the same structures in lower vertebrates. In the latter part of the year the development of vertebrate forms is studied.

   Elective for those who have taken Course 3.
Courses of Instruction

5. Embryology of Vertebrates. First Semester: Hours by special arrangements.

The development of the chick furnishes the foundation on which the course is based. Much laboratory work is demanded. This course counts as a regular three-hour course.


Fundamental structures of vertebrate tissues are included. Much laboratory work is demanded. Continuous with Course 5.

CHEMISTRY

Professor Parmenter, Assistant Professor Hurd and Mr. Briscoe

Students who plan to elect the full chemical course should begin work in chemistry on entering college. Sophomores may, upon the approval of the Department, elect Chemistry 1 and 5 simultaneously.

1. General Chemistry. First Semester: Wednesday, Friday, 11; Laboratory hours, Monday, 10-12, Tuesday, 1.30-3.30.

Introduction: history, occurrence, distribution, preparation, properties and uses of the non-metallic elements and their principal compounds. Theoretical and Historical Chemistry. Lectures and recitations with lecture-table experiments. Individual laboratory work in which the student prepares the principal elements and their compounds and studies their properties. Required of Sophomores, B.S. Course. Elective for Juniors and Sophomores, B.A. Course, and for Freshmen who intend to take the full chemical course.

Professor Parmenter,
Assistant Professor Hurd.
Mr. Briscoe.

2. General Chemistry. Second Semester: at the same hours.

Course 1 continued. History, occurrence, distribution, metallurgy, properties and uses of the metals, and the study of their principal compounds. A brief study of some of the important organic
Courses of Instruction

compounds. Lectures, recitations and laboratory work.
Required of Sophomores, B.S. Course. Elective for Juniors and Sophomores, B.A. Course, and for Freshmen who have taken Chemistry 1.

Professor Parmenter.
Assistant Professor Hurd.
Mr. Briscoe.

3. Household Chemistry. First Semester: Wednesday, Friday, 9; Laboratory hours, Tuesday, 1.30-3.30.

This course will consist of a general discussion of the Chemistry of daily life and the application of the science to various activities of the household. Such subjects as textiles, dyeing, cleaning, laundering, cooking, etc., will be considered. Lectures, recitations and laboratory work.
Elective for students of the Women’s Division who have passed Chemistry 1 and 2.

Professor Parmenter.

4. Chemistry of Food and Nutrition. Second Semester: at the same hours.

A brief survey of the typical compounds of carbon will be made. Particular stress will be laid upon those compounds which are found in plant and animal tissues and the changes which food constituents undergo in the process of cooking, in digestion and under the action of micro-organism. Elementary physiological chemical problems will be discussed. Impurities in foods will be considered and simple tests for such substances made. Lectures, recitations and laboratory work.
Elective for students of the Women’s Division who have taken Chemistry 3.

Note: Students of the Women’s Division may take Chemistry 3, 4 and 5, 6 simultaneously.

Professor Parmenter.


Lectures, recitations and laboratory work on the reactions of the metals and acids. A study of the methods of separation and detection of radicals, based upon the theory of ionization and the law of mass action.
Elective for students who have passed Chemistry 1 and 2.

Mr. Briscoe.

6. Qualitative Analysis and Inorganic Preparations.
Second Semester: at the same hours.

A continuation of Course 5, including the qualitative analysis of technical products. Several inorganic preparations will be made, the products purified and properties studied.
Elective for students who have passed Chemistry 5.

Mr. Briscoe.

7. Quantitative Analysis. First Semester: Tuesday, Thursday, Saturday, 8-10.

This course is arranged to give the student both theoretical and practical instruction in quantitative analysis as illustrated by selected gravimetric methods. The use of the analytical balance, method of weighing and calibration methods are studied. Frequent problems are given and written reports are required covering the theory and methods of analysis. Laboratory work with lectures and quizzes.
Elective for students who have taken or are taking Chemistry 5 and 6.

Professor Parmenter.

8. Quantitative Analysis. Second Semester: at the same hours.

A continuation of Course 7. Theoretical and practical instruction in quantitative analysis as illustrated by selected volumetric and electrochemical methods. Calibration methods are studied and frequent problems are given. Written reports are required covering the theory and methods of analysis. Laboratory work with lectures and quizzes.
Elective for students who have taken Chemistry 7.

Professor Parmenter.


A study of the properties, reactions and structure of the aliphatic hydrocarbons and their derivatives. Lectures, quizzes and laboratory work.
Elective for Juniors and Seniors who have passed or are taking Chemistry 5 and 6.

ASSISTANT PROFESSOR HURD.

10. ORGANIC CHEMISTRY Second Semester: at the same hours.

A continuation of Course 9. A study of benzene, its derivatives and of the more important carbocyclic compounds. Special stress is laid throughout on the relation between chemical constitution and the chemical and physical properties. Lectures, quizzes and laboratory work.

Elective for those who have passed Chemistry 9.

ASSISTANT PROFESSOR HURD.

11. PHYSICAL CHEMISTRY. First Semester: Tuesday, Thursday, 9; Laboratory hours, Saturday, 8-10.

A systematic consideration of the theories, fundamental laws and methods of physical chemistry; including, stoichiometry; gases, liquids and solids; generalizations and applications of the phase rule; thermochemistry; colloid chemistry and photochemistry. Lectures, quizzes and laboratory work on illustrative experiments.

Elective for Juniors and Seniors who have passed Chemistry 6.

ASSISTANT PROFESSOR HURD.

12. PHYSICAL CHEMISTRY. Second Semester: at the same hours.

A continuation of Chemistry 11 including, the law of mass action; modern theories of solutions; chemical kinetics; chemical equilibrium; catalysis; electrochemistry; radioactivity and atomic structure. Lectures, quizzes and laboratory work.

Elective for those who have passed Chemistry 11.

Students may elect Chemistry 7, 9 and 11 simultaneously.

ASSISTANT PROFESSOR HURD.

13. INDUSTRIAL CHEMISTRY. First Semester: Monday, Wednesday, Friday, 8.

In this course a study is made of the more important applications of inorganic and organic chemistry to manufacturing purposes. The aim of the course is not only to give students a knowledge of factory methods which depend upon Chemistry but
also to give a broad cultural idea of the place which the subject of Chemistry holds in the development of modern industry. This is accomplished through lectures, collateral reading, and occasional excursions to manufacturing plants.

The First Semester’s work deals with the application of inorganic chemistry to chemical industries. Lectures, quizzes and visits to plants.

Elective for Juniors and Seniors who have taken or are taking Chemistry 7 to 10.

Mr. Briscoe.

14. INDUSTRIAL CHEMISTRY. Second Semester: at the same hours.

A continuation of Chemistry 13. A study is made of the more important applications of organic chemistry to the development of modern industry. Lectures, quizzes and visits to plants.

Elective for Juniors and Seniors who have passed Chemistry 13.

Mr. Briscoe.

15. QUANTITATIVE ANALYSIS, ADVANCED. First Semester: Tuesday, Thursday, Saturday, 10-12.

Selected methods in gravimetric, volumetric, gasometric and electro-chemical analysis arranged to meet the needs of the individual student. Instruction is given in the use of such physical-chemical apparatus as the polariscope, colorimeter, refractometer, etc. Laboratory work with lectures and written reports.

Elective for Seniors who have passed Chemistry 7 and 8.

Professor Parmenter.

16. TECHNICAL ANALYSIS. Second Semester: at the same hours.

This course is a continuation of Chemistry 15 and has to do with the quantitative study of technical, agricultural and industrial products. The analysis of iron and steel, lubricating oils, the complete analysis of coal with bomb-calorimeter methods, paint and soap analysis, water analysis for industrial and portable purposes, food analysis and the analysis of fertilizer are some of the problems studied. The work so far as possible is arranged to meet the needs of the individual student. Laboratory work with lectures and written reports.
Elective for Seniors who have passed Chemistry 15.

**PROFESSOR PARMENTER.**

17. **ORGANIC CHEMISTRY, ADVANCED.** First Semester: Monday, Thursday, Friday, 1.30-3.30.

Lectures covering the theories of Organic Chemistry; the more important reactions; drugs; physiological products, dyestuffs and the relation of color and constitution.

Laboratory work on more advanced problems than those performed in Chemistry 9 and 10 including a study of the preparation, careful purification, analysis, determination of the molecular weight and formula of some organic compound.

Elective for Seniors who have passed Chemistry 10.

**ASSISTANT PROFESSOR HURD.**

18. **CHEMICAL PROBLEMS.** Second Semester: at the same hours.

Laboratory work under the direction of an instructor on some (special) chemical problem approved by the Department. Includes reference work, frequent conferences, and a typewritten report.

Elective for Seniors who have passed Chemistry 17 and who are taking Chemistry 16.

Students may elect Chemistry 13, 15 and 17 simultaneously.

**PROFESSOR PARMENTER.**
**ASSISTANT PROFESSOR HURD.**
**MR. BRISCOE.**

**DRAWING AND DESCRIPTIVE GEOMETRY**

**ASSOCIATE PROFESSOR CARTER**

1. **MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY.** First Semester: Monday, Thursday, Friday, 1.30-3.30.

The principles of Descriptive Geometry, comprising the projection of points and lines, the intersection of solids, the development of surfaces, and graphic solution of problems. The mechanical drawing of geometric figures and objects, lettering and dimensioning.

Elective for Freshmen, Sophomores, Juniors, and Seniors.
2. **MECHANICAL DRAWING AND DESCRIPTIVE GEOMETRY.** Second Semester: at the same hours.

Continuation of Course 1.

Elective for those who have completed that course.

By a recent special gift it has become possible to provide amply for the work in Drawing and Descriptive Geometry which had been already begun. The south end of the second floor of Champlin Hall has been made into a single room, which is well lighted and furnished with excellent individual tables and stools for drawing; also chairs and blackboards for lecture and recitation work.

Drawing and Descriptive Geometry are of great value as cultural studies and training of the imagination, as well as for their practical applications. By means of these courses, students preparing for engineering professions, may anticipate studies required for technical subjects.

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**ECONOMICS AND SOCIOLOGY**

**ASSOCIATE PROFESSOR MORROW AND ASSOCIATE PROFESSOR ANDREW**

The students who intend to major in Economics and Sociology, or who plan to do graduate work in these subjects, prepare for foreign service, do social work, enter business, or study law are advised to take one of the following suggested courses. These courses, while permitting a considerable degree of concentration, give the student the liberal education of a classical college.

### 1. **Business Administration**

#### FRESHMAN YEAR

- Mathematics 1, 3 or 2, 4
- Public Speaking 1, 3
- *Latin 1, 3 or 2, 4: or
- †Physics 1, 3 or 2, 4
- English Composition
- Modern Language
- Bibliography A.

#### SOPHOMORE YEAR

- Economics 1, 2
- History
- English
- Modern Language
- †Geography 1, 2 or Chemistry 1, 2
2. Commerce and Consular Service

FRESHMAN YEAR
Public Speaking 1, 3
Bibliography A.
Mathematics 1, 3 or 2, 4
*Latin 1, 3 or 2, 4: or
†Physics 1, 3 or 2, 4
Modern Language
English Composition

JUNIOR YEAR
Economics 3, 4 or 5, 6
History
Modern Language
Sociology 1, 2
Psychology 1, 2

SOPHOMORE YEAR
Economics 1, 2
English
History
†Geography 1, 2 or Chemistry 1, 2
Modern Language

SENIOR YEAR
Economics 5, 6 or 3, 4
Sociology 3, 4, 5, 6
Political Science
Philosophy
Modern Language

3. Law

FRESHMAN YEAR
Public Speaking 1, 3
Bibliography A.
Mathematics 1, 3 or 2, 4
Latin 1, 3 or 2, 4
English Composition
Modern Language

JUNIOR YEAR
Economics 3, 4 or 5, 6
Sociology 1, 2
History
Political Science
Foreign Language

SOPHOMORE YEAR
Economics 1, 2
History
English
Foreign Language
Geography 1, 2

SENIOR YEAR
Economics 5, 6 or 3, 4
History
Sociology 3, 4, 5, 6
Psychology 1, 2
Foreign Language
Courses of Instruction

4. Social Economics

**FRESHMAN YEAR**

Mathematics 1, 3 or 2, 4
*Latin 1, 3 or 2, 4: or
†Physics 1, 3 or 2, 4
Biology 1, 2
Public Speaking 1, 3
French or German
English Composition

**SOC砌Eomore Year**

Economics 1, 2
Sociology 1, 2
English
French or German
†Geography 1, 2 or Chemistry 1, 2

**JUNIOR YEAR**

Economics 3, 4 or 5, 6
Sociology 3, 4 or 5, 6
History
English
French or German

**SE砌Encor Year**

Economics 5, 6 or 3, 4
Psychology 1, 2
Sociology 5, 6 or 3, 4
History
Political Science

* A.B. students are required to take Latin or Greek.
† B.S. students are required to take Physics and Chemistry.

**Economics**

1. **PRINCiPLES OF ECONOMICS.** First Semester: Div. A, Tuesday, Thursday, Saturday, 8; Div. B, Monday, Thursday, Friday, 2.30.

   A brief survey of the development of economic thought from the early nations down through the Mercantilists, Kameralists, Physiocrats, and Adam Smith. A careful study of consumption, production, and distribution follows. Much time is given to collateral reading.

   Text-book, lectures, assigned readings.

   Elective for Sophomores, Juniors and Seniors.

   ASSOCIATE PROFESSOR MORROW.
   ASSOCIATE PROFESSOR ANDREW.

2. **PRINCiPLES OF ECONOMICS.** Second Semester: at the same hours.

   This is a continuous course with Course 1. The subjects of banking, credit, labor, money, social insurance, socialism, tariff, and transportation are studied. Text-book, lectures, collateral readings. A paper on some economic question is required of all students in the course.

   Elective for Sophomores, Juniors and Seniors.

   ASSOCIATE PROFESSOR MORROW.
   ASSOCIATE PROFESSOR ANDREW.
3. **PUBLIC FINANCE.** First Semester: Monday, Wednesday, Friday, 11.

Some of the most important topics of public finance are considered i.e., taxations, public debt, public expenditures, budgets, collection of revenues, and war finance. Text-book, lectures, collateral reading, and special reports.

Elective for Juniors and Seniors who have taken Courses 1 and 2.

**ASSOCIATE PROFESSOR MORROW.**

4. **INTERNATIONAL TRADE.** Second Semester: at the same hours.

Work in this course covers the theory of foreign and domestic trade. The effects of tariffs, bounties, and other interferences with world trade are examined. How transportation and the rates of foreign exchange enter into trade relations are discussed. A careful study of a text is supplemented by lectures, and numerous collateral readings.

Elective for Juniors and Seniors who have taken Courses 1 and 2.

**ASSOCIATE PROFESSOR MORROW.**

[5. **CORPORATIONS.** First Semester: Monday, Wednesday, Friday, 11.]

Why the various types of business organization came into being; together with the structure, functions, promotion and financing of such organizations are studied. Lectures, text-book and reports on assigned readings.

Elective for Juniors and Seniors who have taken Courses 1 and 2.

**ASSOCIATE PROFESSOR MORROW.**

[6. **MONEY AND BANKING.** Second Semester: at the same hours.]

The evolution of money; the functions of banking; the banks in France, Germany, Great Britain and the United States; and the Federal Reserve Bank are studied. Text-book, lectures, collateral reading, and papers on assigned topics.

Elective for Juniors and Seniors who have taken Courses 1 and 2.

**ASSOCIATE PROFESSOR MORROW.**
Courses of Instruction

Sociology

1. PRINCIPLES OF SOCIOLOGY. First Semester: Tuesday, Thursday, Saturday, 9.

This course is a study of social evolution, socialization, social ideals, social control, social pathology, and methods of social investigation. Besides lectures, text-book, and collateral reading, each student reports on some sociological topic.
Elective for Juniors and Seniors who have taken Economics 1 and 2.
ASSOCIATE PROFESSOR MORROW.

2. SOCIAL PROBLEMS. Second Semester: at the same hours.

Special social problems such as the family, population, immigration, negro, city, country, pauperism, crime, socialism, and education and social progress are studied. Text-book, lectures, and special papers.
Elective for Juniors and Seniors who have taken Sociology 1.
ASSOCIATE PROFESSOR MORROW.

3. SOCIAL STATISTICS. First Semester: Monday, Thursday, Friday, 1.30.

This course deals with various phenomena of births, deaths, divorces, marriages, population, prices and wages. It includes a study of statistical methods based on the theory of probabilities. The work of Galton and others receive careful consideration. Lectures, text-book, collateral reading, and prepared papers on assigned topics.
Elective for Seniors who have taken Sociology 1 and 2.
ASSOCIATE PROFESSOR MORROW.

4. SOCIOLOGY SEMINAR. Second Semester: at the same hours.

Students in this course must prepare reports on particular sociological topics, and these reports form the basis of class discussion. A paper embodying the work of each student is required. Some time is given to recent literature in sociology and to the subject of eugenics.
Elective for Seniors who have taken Sociology 1 and 2.
ASSOCIATE PROFESSOR MORROW.

[5. IMMIGRATION AND AMERICANIZATION. First Semester: Monday, Thursday, Friday, 1.30.]
A study of immigration is made from its social, economic and political aspects. This is followed by a survey of the agencies and methods of Americanizing the immigrant. Text-book, lectures and reports.

Elective for students who have taken Sociology 1 and 2.

ASSOCIATE PROFESSOR MORROW.

[6. POVERTY AND DEPENDENCY. Second Semester: at the same hours.]

Of all the social problems Poverty is one of the most important. The Socio-Economic factors that cause an increase in the number of capable and industrious people who become dependents are studied. Methods of relief and prevention receive careful consideration. Lectures, text-book and written reports.

Elective for students who have taken Sociology 1 and 2.

ASSOCIATE PROFESSOR MORROW.

EDUCATION

(See Philosophy).

ENGLISH LITERATURE

English and American Literature

ASSOCIATE PROFESSOR HANNAY AND PROFESSOR CHIPMAN

[1. ANGLO-SAXON. First Semester: Monday, Wednesday, Friday, 9.]

A course in Germanic Philology and in the literature of the Old English period.

Elective for Juniors and Seniors.

Given in alternate years.

ASSOCIATE PROFESSOR HANNAY.

[2. CHAUCER. Second Semester: Monday, Wednesday, Friday, 9.]

An introductory outline of Middle English literature, followed by a study of Middle English grammar and an intensive study of the Prologue, many of the Canterbury Tales, and other works of Chaucer. Constant emphasis upon the historical development of the Language is maintained.

Elective for Juniors and Seniors.

Given in alternate years.

ASSOCIATE PROFESSOR HANNAY.

A course involving extensive reading in the early drama, all of Shakespeare, and representative plays down to the closing of the theatres.
Elective for Juniors and Seniors who have completed English 5 and 6.
Given in alternate years.

Associate Professor Hannay.

4. The History, Development and Technique of the Drama to 1642. Second Semester: at the same hours.

A continuation of Course 3, with the same requirements of candidates and the same conditions of work.
Elective for Juniors and Seniors who have completed English 3.
Given in alternate years.

Associate Professor Hannay.

5. English Literature in Outline. First Semester: Division A, Monday, Wednesday, Friday, 8; Division B, Tuesday, Thursday, Saturday, 8.

A rapid survey of English literature from the earliest Anglo-Saxon times to Milton.
Elective for all classes except the Freshman.

Associate Professor Hannay.

6. English Literature in Outline. Second Semester: Division A: Monday, Wednesday, Friday, 8; Division B: Tuesday, Thursday, Saturday, 8.

A continuation of Course 5 from Dryden to the present, with the same requirements of candidates and the same conditions of work.
Elective for all classes except the Freshman.

Associate Professor Hannay.


A detailed study of two great modern literary expressions centering in the work of Milton and of Wordsworth.
Elective for students who have completed English 5 and 6.

Associate Professor Hannay.
8. **PURITANISM AND ROMANTICISM.** Second Semester: at the same hours.

   A continuation of Course 7, with the same requirements of candidates and the same conditions of work.
   Elective for Juniors and Seniors who have completed English 7.

   **ASSOCIATE PROFESSOR HANNAY.**

9. **VICTORIAN POETRY.** First Semester: Tuesday, Thursday, Saturday, 9.

   An intensive study of the poetic expression of the nineteenth century, with special emphasis upon the work of Tennyson and of Browning.
   Elective for Juniors and Seniors who have completed English 5 and 6.
   Given in alternate years.

   **ASSOCIATE PROFESSOR HANNAY.**

10. **VICTORIAN POETRY.** Second Semester: at the same hours.

   A continuation of Course 9, with the same requirements of candidates and the same conditions of work.
   Elective for Juniors and Seniors who have completed English 9.
   Given in alternate years.

   **ASSOCIATE PROFESSOR HANNAY.**

[11. **AMERICAN LITERATURE.** First Semester: Tuesday, Thursday, Saturday, 9.]

   A survey of the whole field of American literary development from the beginnings to the present.
   Elective for Juniors and Seniors who have completed English 5 and 6.
   Given in alternate years.

   **ASSOCIATE PROFESSOR HANNAY.**

[12. **CONTEMPORARY LITERATURE.** Second Semester: Tuesday, Thursday, Saturday, 9.]

   A study of present-day English and American literary expression in poetry, the drama, the short-story, and the novel.
   Elective for Juniors and Seniors who have completed English 11.
   Given in alternate years.

   **ASSOCIATE PROFESSOR HANNAY.**
Courses of Instruction

A. INTRODUCTION TO THE STUDY OF LITERATURE. First Semester: Monday, Wednesday, Friday, 10.

Intended to cultivate the appreciation of English literature by the reading and study of famous essays, novels, plays, and poems.

Elective for students who do not take Course 5.

PROFESSOR CHIPMAN.

B. INTRODUCTION TO THE STUDY OF LITERATURE. Second Semester: Monday, Wednesday, Friday, 10.

A continuation of Course A.

PROFESSOR CHIPMAN.

NOTE: Courses A and B will not be given in 1922-1923.

ENGLISH COMPOSITION

ASSISTANT PROFESSOR BROWN AND ASSISTANT PROFESSOR ROLLINS

1. ENGLISH COMPOSITION. First Semester: Div. A, Monday, Wednesday, Friday, 8; Div. B., Monday, Wednesday, Friday, 10; Div. C, Tuesday, Thursday, Saturday, 8.

The work of this course is basic; its aim is to give the student a reasonable mastery of the English language, and hence to equip him for successful college work, especially for further work in composition and literature. Emphasis is put upon clear, orderly thinking; upon correctness in speaking and writing; and upon literary methods in various forms of composition.

The work consists of recitations, class discussions, outside reading, and much original composition.


Required of men of the Freshman or Sophomore class.

ASSISTANT PROFESSOR BROWN.

ASSISTANT PROFESSOR ROLLINS.

2. ENGLISH COMPOSITION. Identical with Course 1. First Semester: Div. A, Monday, Wednesday, Friday, 11; Div. B, Tuesday, Thursday, Saturday, 10; Div. C, Tuesday, Thursday, Saturday, 11.

Required of women of the Freshman or Sophomore class.

ASSISTANT PROFESSOR BROWN.
3. A Continuation of Course 1. Second Semester: at the same hours as Course 1.

Required of men of the Freshman or Sophomore class.

Assistant Professor Brown.
Assistant Professor Rollins.

4. The Same as Course 3. Second Semester: at the same hours as Course 2.

Required of women of the Freshman or Sophomore class.

Assistant Professor Brown.

5. Advanced Composition. First Semester: Monday, Thursday, and Friday, 2.30.

Designed for students who are especially interested in writing. The work is an intensive study in the methods of the Short-story, of the One Act Play, of the Magazine Article, and of Verse. There is no attempt at professional training: the course is rather informing and cultural—the aim being to increase the student’s appreciation of these forms of literature; and to aid him in gaining fluency and facility in the expression of ideas, and skill in the handling of his subject-matter.

Stories or Articles every two weeks, reports on reading, and impromptu criticism in the classroom. Lectures and class discussions.

Elective for men and women who have completed Courses 3 or 4.

Assistant Professor Rollins.

6. Continuation of Course 5. Second Semester: at the same hours.

Assistant Professor Rollins.

7. Advanced Composition. First Semester: Hours by special arrangement.

Limited to students who have shown decided ability as writers, and who wish to do further work in some particular field of composition.

Meetings of the group with the instructor once a week, individual conferences, and written reports every three weeks.

Given in 1921-1922, and alternate years.

Assistant Professor Rollins.
8. ADVANCED COMPOSITION. Second Semester: Hours by special arrangement.

Continuation of Course 7.
Given in 1921-1922, and alternate years.
Assistant Professor Rollins.

FRENCH

Associate Professor Harry, Associate Professor Helie and Mr. Nelson

1. ELEMENTARY FRENCH. First Semester: Monday, Thursday, Friday, 3.30.

Grammar, pronunciation, oral work and composition based on the New Fraser and Squair Grammar. Reading of simple French prose.
Associate Professor Helie.

2. ELEMENTARY FRENCH. Second Semester: at the same hours.
Associate Professor Helie.


Grammar, pronunciation, oral work and composition. Reading from such works as Flaubert’s “Un Cour Simple,” Zola’s L’attaque du Moulin, France’s Le Livre de Mon Ami, Daudet’s Les Lettres de Mon Moulin, Lemaitre’s Contes Extraits de Myrha, Maupassant’s Contes.
Associate Professor Helie.

4. SECOND-YEAR FRENCH. Continues Course 3. Second Semester: at same hours.
Associate Professor Helie.

5. THIRD-YEAR FRENCH. First Semester: Tuesday, Thursday, Saturday, Division A, 9; Divisions B and C, 8.

Translation of French into English. Selections from the works of Victor Hugo, Balzac, Musset, Lamartine, France, Daudet, Lotie, and others. Occasional themes in French are required. One meeting a week will be devoted to exercises in composition.
Associate Professor Harry.
Associate Professor Helie.
Mr. Nelson.
6. **THIRD-YEAR FRENCH.** Second Semester. Continues Course 5, at the same hours.

   **ASSOCIATE PROFESSOR HARRY.**
   **ASSOCIATE PROFESSOR HELIE.**
   **MR. NELSON.**

7. **COMMERCIAL FRENCH.** First Semester: Monday, Wednesday, Friday, 10.

   Practice in commercial correspondence. Graham & Oliver's French Commercial Practice is used.

   **MR. NELSON.**

8. **COMMERCIAL FRENCH.** Continues Course 7, at the same hours.

   **MR. NELSON.**

9. **LITERATURE OF THE NINETEENTH CENTURY.** First Semester: Tuesday, Thursday, Saturday, 10.

   The history of the French Romantic Movement. Weekly themes in French are required upon subjects connected with the Course. Particular attention will be given to the novel and the poetry of the time. The following works will be read in class: Chateaubriand, Atala, René, and Selections from Le Génie du Christianisme and Les Mœurs d'autre-tombe; Vigny, Cinq-Mars, and selections from Les Destinées; Victor Hugo, La Légende des Siècles and Les Contemplations; Lamartine, Poesies; Musset, Poesies et Comédies.

   **ASSOCIATE PROFESSOR HELIE.**

10. **LITERATURE OF THE NINETEENTH CENTURY.** Second Semester: at the same hours.

   The French realists. Lectures in French, themes, and a considerable amount of outside reading. Selections from the works of Balzac, Flaubert, the younger Dumas, Daudet, Zola, Taine, and others.

   **ASSOCIATE PROFESSOR HELIE.**

11. **FRENCH COMPOSITION AND CONVERSATION.** First Semester: Monday, Wednesday, Friday, 10.

   Designed for students who wish to acquire greater facility in speaking and writing French. Dictation and memorizing. Larousse's Grammaire Française, Deuxième Année is used.

   **ASSOCIATE PROFESSOR HELIE.**
12. FRENCH COMPOSITION AND CONVERSATION. Second Semester: at the same hours.

A study of the characteristic features of French civilization as reflected in the works of such writers as Taine, Thiery, Thiers, Michelet, Guizot, Rambaud and Lavois.

As the purpose of the Course is to give practice in speaking French, it is open only to a limited number of qualified students.

ASSOCIATE PROFESSOR HELIE.

13. THE CLASSICAL DRAMA. First Semester: Monday, Thursday, Friday, 2.30.

A study of the drama of Corneille, Racine, and Molière. Collateral reading and reports. Dictation and short lectures in French. Special attention is given also to the more important prose writers of the seventeenth century.

Elective for Sophomores, Juniors and Seniors, who have completed Courses 5 and 7, or 6 and 8.

ASSOCIATE PROFESSOR HARRY.

14. LITERATURE OF THE EIGHTEENTH CENTURY. Second Semester: at the same hours.

A study is made of Voltaire, Le Sage, Beaumarchias, Marivaux and Rousseau. Collateral reading and reports. Short lectures in French.

Elective for Sophomores, Juniors and Seniors who have completed Course 11.

ASSOCIATE PROFESSOR HARRY.

15. THE TEACHING OF FRENCH. First Semester: Tuesday, Thursday, Saturday, 10.

A study of methods of teaching French in secondary schools. Lectures on French phonetics with drill in pronunciation, conversation, and composition.

Prerequisite, Courses 11 and 12, or 13 and 14.

ASSOCIATE PROFESSOR HARRY.

16. CONTEMPORARY FRENCH DRAMA. Second Semester: at the same hours.

Rostand’s La Princesse Lointaine and Cyrano de Bergerac are read in class. Collateral reading and reports include Rostand’s L’Aiglon and Chantecler;
also Maeterlinck's L'Oiseau Bleu. A brief study is also made of the social drama in France today. Lectures, reports and discussions in French. Prerequisite, Courses 11 and 12, or 13 and 14.

ASSOCIATE PROFESSOR HARRY.

GEOLOGY AND GEOGRAPHY

ASSOCIATE PROFESSOR PERKINS

Geology

1. PHYSIOGRAPHY. First Semester: Div. A, Wednesday, Friday, 9; Div. B, Wednesday, Friday, 10; Laboratory Divisions, Tuesday, Thursday, 1.30-3.30.

A study of the topographic forms of the earth's surface, including their structure, origin and development. This course is designed for those who wish a cultural knowledge of geology and for those who may later teach physical geography in high school. Text-book study, laboratory work, and field trips.

Elective for Freshmen, Sophomores, Juniors, and Seniors. Prerequisite for other courses in the department.

2. PHYSIOGRAPHY AND METEOROLOGY. Continuation of Geology 1. Second Semester: at the same hours.

The work on earth forms is completed and considerable time is devoted to the study of the atmosphere, weather, and climate. Text-book study, field trips, and laboratory work.

3. PHYSICAL GEOLOGY. First Semester: Thursday, Saturday, 8; Laboratory, Friday, 1.30-3.30.

A study of the rocks of the earth's crust, including their composition, origin and structure. Special attention is given to those features of the rocks which are of use in interpreting the past history of the earth. Text-book study, laboratory work and field trips.

Elective for those who have had Geology 1-2, and for Seniors with the consent of the Instructor.

4. HISTORICAL GEOLOGY. Second Semester: at the same hours.
Courses of Instruction

A study of the history of the earth as written in the rocks. Attention is given to the geography and climates of the past and their effect on the development of organic life. Text-book study, laboratory work and field trips.

Elective for those who have had Geology 3.

[5. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS.]
First Semester: Tuesday, Thursday, Saturday, 10-12.

A course in the identification of minerals by means of their geometric form and physical and chemical properties. This course is intended for those students specializing in Chemistry, Engineering, or Geology, and for those who feel that a knowledge of minerals would provide an interesting or profitable avocation.

Elective for those who have had or are taking Chemistry 5.

[6. ECONOMIC GEOLOGY. Second Semester: at the same hours.]

A study of the origin and method of occurrence of the two great classes of natural inorganic resources; namely, the non-metallic products such as coal, oil, cement, salt, phosphates, asbestos, and many minor materials, and the metallic products such as iron, copper, gold, silver, zinc, and lead.

Elective for those who have had any of the preceding courses in Geology. It is advisable, however, that Geology 5 should have been completed.

Geology 5-6 given in alternate years with Geology 7-8.

7. GEOLOGICAL RESEARCH. First Semester: Tuesday, Thursday, Saturday, 10-12.

A course designed to give practice in the methods of geological research. The work will be adapted to the needs of the individual student and will consist of reading in geological literature and of field and laboratory work on an assigned problem. At the end of the course the student is expected to prepare a typewritten report upon his problem. The course counts as a standard three-hour course for the year.

Elective for students who have taken Geology 3.

8. GEOLOGICAL RESEARCH. Second Semester: at the same hours.

Geology 7, 8 alternates with Geology 5, 6.
Geography

1. **Principles of Human Geography.** First Semester: Wednesday and Friday, 8; Laboratory, Monday, 8-10.

   A study of the geographic environment of man and its effect upon history, industry, and commerce. Text-book and laboratory work.

   Elective for Juniors and Seniors without prerequisites and for Sophomores with consent of the Instructor.

2. **Principles of Human Geography,** continued. Second Semester: at the same hours.

**German**

**Professor Marquardt**

The chief object of the courses in elementary German is to give every graduate a sufficient knowledge of the language to enable him to make practical use of it. The student acquires the necessary knowledge of the grammar, and a good vocabulary, so that he is able to translate ordinary German at sight. Besides, conversation is taught to a certain extent, in order to train the student's ear, to furnish him a correct pronunciation, and to familiarize him with the most important idioms.

The aim of the intermediate and advanced elective courses is to give those students who wish to make a specialty of German a more thorough knowledge of the language through the reading of the best German authors, and by constant practice in German conversation and translation into German. A course of lectures on German literature from its beginnings to the present time is given in German. These lectures present to the students a general view of the development of German literature from the Prehistoric Period to the Old High German, from that period to the Middle High German, and from that dialect to the New High German.

In order to acquaint the student with the scientific style and terms of the language a German Science Reader and an Advanced Scientific German Course have been added in the advanced courses. Such courses are, however, not designed to teach the sciences to students who have not yet become acquainted with general scientific principles. When the student
has acquired some knowledge of the subject-matter from his English scientific courses he may derive great benefit from learning also the technical terms in German. A sufficient practice in scientific German will not only give him valuable additional training in a new language, but also enable him to consult German scientific works with great profit.


   Study of the elements of German Grammar according to Bacon's New German Grammar; careful practice in pronunciation. German script required from the beginning.

   Elective for all men who have not studied any German.

2. **Same as Course 1.** First Semester: Monday, Wednesday, and Friday, 10.

   Elective for all women who have not studied any German.

3. **Grammar, Bacon continued.** Second Semester: at same hours as Course 1.

   Special attention paid to strong verbs and the elementary parts of German syntax. Memorizing of poetry. Translation of Storm's Immensee.

   Requirements are the same as in Course 1.

4. **Same as Course 3.** Second Semester: at same hours as Course 2.

   Requirements are the same as in Course 2.


   Constant practice in conversation according to Bernhardt's Im Zwielicht. Daily themes. Special attention paid to irregular verbs.

   Elective for Sophomores and Juniors who have taken Courses 1 and 3, or 2 and 4, or who have offered German for entrance, and for Freshmen who offer German for entrance.

6. **Translation and Conversation,** according to Bernhardt's Im Zwielicht, continued. Second Semester: at the same hours as Course 5.
Memorizing of poetry. Blochmann's Scientific German.
Elective for Freshmen, Sophomores, and Juniors who have taken Course 5.

7. ADVANCED SCIENTIFIC GERMAN. First Semester: Monday, Thursday, Friday, 1.30.

Based on selections from the following books:

Elective for students who have completed Courses 5 and 6.

*8. CHIEFLY LITERARY WORK. Second Semester: at same hours as Course 7.

Based on Keller's Bilder aus der Deutschen Litteratur, dictation, composition and conversation. Allen's German Life. Lectures on German Literature.

Elective for students who have completed Course 7.

*9. LESSING AND SCHILLER. First Semester: Monday, Wednesday, Friday, 10.

One drama of each author will be read, and the life and times, and other works of both discussed in lectures and reports. Prose composition.

Elective for all students who have completed Courses 5 and 6.

*10. GOETHE. Second Semester: at same hours as Course 9.

Specimens of Goethe's poetry and prose. Lectures and reports. Prose composition.

Elective for all students who have completed Courses 5 and 6.

11. GRAMMAR. First Semester: Tuesday, Thursday, Saturday, 11.

Prose Composition by v. Jagemann, with syntax by the same author. Fulda's der Talisman. German conversation.

Elective for all students who have completed Courses 5 and 6.
Courses of Instruction

12. **Goethe's Faust, I. Teil.** Second Semester: at the same hours as Course 11.

    Prose Composition by v. Jagemann. Original themes and dictation. Conversation. Elective for all students who have taken Course 11.

    *Note: On account of the small number of students who elected Courses 8, 9 and 10, it was deemed expedient to combine them into one single course during the present academic year.

**GREEK**

**Professor White**

1. **Elementary Greek.** First Semester: Tuesday, Thursday, Saturday, 9.

    Elective for all classes.

2. **Elementary Greek, continued, with reading of simple prose.** Second Semester: at the same hours.

3. **Elementary Greek; reading of simple prose, continued.** First Semester: Monday, Wednesday, Friday, 10.

    Elective for those who have completed Courses 1 and 2.

4. **Elementary Greek; readings from Homer.** Second Semester: at the same hours.

    Elective for those who have completed Course 3.

    *Note: Courses 1-4 are for those who have not studied Greek in preparation for college but wish to gain some knowledge of the language. The purpose is to do in two years approximately the work that is done in three years in the ordinary preparatory school course. The rate of progress, therefore, must be rapid, and only apt students of language who can devote a generous amount of time to this work should think of undertaking it.

5. **Homer.** First Semester: Monday, Wednesday, Friday, 9.

    Selections from the Odyssey; study of national as contrasted with literary epic, and of ancient Greek life as depicted in the Homeric poems; extra
reading of portions of the poems in English versions.
Elective for those who have completed Courses 1-4 or their equivalent.
Given in alternate years.

6. **SELECTIONS FROM THE GREEK HISTORIANS.** Second Semester: at the same hours.
Elective for those who have completed Course 5.
Given in alternate years.

[7. **SELECTED SPEECHES OF LYSIAS.** First Semester: Monday, Wednesday, Friday, 9.]
Elective for those who have completed Courses 1-4 or their equivalent.
Given in alternate years.

[8. **PLATO’S APOLOGY AND CRITO,** with collateral reading from Xenophon’s Memorabilia of Socrates. Second Semester: at the same hours.]
Elective for those who have completed Course 7.
Given in alternate years.

NOTE: It will be noted that courses are offered above for those who enter college with one, two, or three years of Greek to their credit, as well as for those who enter without Greek.

[9. **INTRODUCTION TO DRAMATIC POETRY.** First Semester: Monday, Wednesday, Friday, 11.]
Study of the origin and development of the Greek Drama, and of the structure and presentation of a Greek play; reading of a play of Æschylus, or Sophocles, and of other plays in English versions.
Elective for those who have completed Courses 5-8.
Given in alternate years.

[10. **DRAMATIC POETRY continued.** Second Semester: at the same hours.]
Reading of a play of Euripides and a play of Aristophanes, and of other plays in English versions.
Elective for those who have completed Course 9.
Given in alternate years.

[11. **BIBLICAL GREEK.** Selections from the Septuagint. First Semester: Monday, Wednesday, Friday, 11.]
Courses of Instruction

Elective for those who have completed Courses 5-8.
Given in alternate years.

[12. BIBLICAL GREEK. The Gospel according to Mark. Second Semester: at the same hours.]

Elective for those who have completed Course 11.
Given in alternate years.

13. SURVEY OF GREEK POETRY: Epic, Lyric, and Dramatic.
First Semester: Tuesday, Thursday, Saturday, 11.
Elective for Sophomores, Juniors, and Seniors.

14. SURVEY OF GREEK PROSE LITERATURE. Second Semester: at the same hours.
Elective for those who have completed Course 13.
NOTE: No knowledge of the Greek language is required for Courses 13 and 14; the reading will be done in English translations.

HISTORY AND POLITICS

PROFESSOR BLACK AND ASSOCIATE PROFESSOR ANDREW

European History

European History. A study of the institutions of the western world, the Germanic invasions, the feudal period, the rise of European nationalities, the mediaeval church, the Renaissance, the Reformation and the religious wars, the struggle for constitutional government in England, the age of Louis XIV., the rise of Prussia and of Russia, the old régime in Europe prior to the French Revolution, the revolutionary and Napoleonic Era, the Congress of Vienna, revolutionary activities of the nineteenth century and the growth of democracy, the unification of Italy and of Germany, the Franco-Prussian war, France under the Third Republic, parliamentary reform in England, the expansion of the British Empire, the Eastern Question, the Balkan Wars, recent international crises in Europe, and the causes, issues, and results of the Great European War. Text-books, assigned readings, lectures, and quizzes.

The work is given as follows:
1. **European History to the Renaissance.** First Semester: Div. A, Tuesday, Thursday, Saturday, 9; Div. B, Tuesday, Thursday, Saturday, 10.

   Elective for Sophomores and Juniors.

   **Professor Black.**

2. **European History from the Reformation to the Napoleonic Era.** Second Semester: at the same hours.

   Elective for Sophomores and Juniors who have taken Course 1.

   **Professor Black.**

3. **European History from the Congress of Vienna to the Franco-Prussian War.** First Semester: Monday, Wednesday, Friday, 11.

   Elective for Juniors and Seniors who have taken Courses 1 and 2.

   **Professor Black.**

4. **European History from the Franco-Prussian War to the present time.** Second Semester: at the same hours.

   Elective for Juniors and Seniors who have taken Course 3.

   **Professor Black.**

**American History**

5. **American History through the war of 1812.** First Semester: Monday, Wednesday, Friday, 9.

   Elective for Sophomores, Juniors and Seniors.

   **Associate Professor Andrew.**

6. **History of the United States from 1815 to the Present.** Second Semester: at the same hours.

   The course in American Political History 5 and 6 is continuous throughout the year. Students are recommended to take History 1 and 2 as a preparation.

   A brief survey of American history prior to the formation of the Union is followed by a more intensive study of the period under the Constitution.

   The course treats the influences that led to the expansion of Europe in the Age of Discovery, the transit of civilization from the Old World to the New, the occupation of the North American conti-
Courses of Instruction

Cour ses of Instruction in English Colonies and their union in the United States.

It continues with a study of the following subjects, among others—the formation of a proper frame of government for the new nation, the establishment of the departments of government under the constitution, the position and course of the United States, in the era of the earlier World War, the opening of the West, the rise of manufacture, the evolution of political parties, the divergence of the sections, the Civil War and the period of reconstruction, the disappearance of the frontier, the rise of national problems—social and economic, the history of the past quarter-century, international relations, the Great War, and the rise of the United States to world leadership. Text-book, collateral reading, lectures, reports, map studies, graphs, and quizzes.

ASSOCIATE PROFESSOR ANDREW.

7. AMERICAN CONSTITUTIONAL HISTORY. First Semester: Tuesday, Thursday, Saturday, 8.

Elective for Juniors and Seniors.

ASSOCIATE PROFESSOR ANDREW.

8. AMERICAN CONSTITUTIONAL HISTORY (continued). Second Semester: at the same hours.

The course in American Constitutional History is continuous throughout the year. Its aim is the development of a background of knowledge and appreciation of American institutions and American principles on which to project the study of present-day practices and problems of American citizenship. The backbone of the course will naturally be an historical and expository study of the Constitution of the United States—its sources, formation, growth, and amendment. The creation of public opinion, the practice and problems of political parties, the rights, duties, and responsibilities of citizens, along with local constitutional history and the economic and social aspects of citizenship will be among the subjects treated.

While the course has particular practical value for those intending to enter teaching or the law, it will be found of advantage also to professional men in general, to men practicing scientific engineering, to the man in business, and to the ordinary citizen who expects to share in that leadership in the life of
his community which it is the duty and the privilege of the educated man to take.

Constitutional documents as texts; lectures, collateral reading, reports, quizzes, and discussions intended to stimulate political thinking.

ASSOCIATE PROFESSOR ANDREW.

Politics

5. POLITICAL SCIENCE. First Semester: Monday, Wednesday, Friday, 10.

This course is historical and critical, and deals with the origin and nature of the State, with the forms and functions of government, the organization of national and local governments, and party systems; special attention being given to the governments of Great Britain, France, and Germany, and their developments in recent years. Textbooks, assigned readings, lectures, and reports by the students.

Elective for Juniors and Seniors who have taken History 1 and 2.

PROFESSOR BLACK.

6. POLITICAL SCIENCE, continued. Second Semester: at the same hours.

Includes also a study and comparison of the features of American Government with foreign governments, a study of American political problems and conditions, and the international relations of the United States.

Elective for Juniors and Seniors who have taken Course 5.

PROFESSOR BLACK.

HISTORY OF ART

PROFESSOR WHITE

1. ORIENTAL AND GREEK ART. First Semester: Monday, Thursday, Friday, 3.30.

Particular attention will be given to Greek Sculpture.

Elective for Juniors and Seniors.

Given in alternate years.

2. ROMAN AND MEDIEVAL ART. Second Semester: at the same hours.
Courses of Instruction

Particular attention will be given to Gothic Architecture.
Elective for those who have completed Course 1.
Given in alternate years.

[3. RENAISSANCE ART. First Semester: Monday, Thursday, Friday, 3.30.]
Particular attention will be given to Italian Painting.
Elective for Juniors and Seniors.
Given in alternate years.

[4. MODERN ART. Second Semester: at the same hours.]
Elective for those who have completed Course 3.
Given in alternate years.

NOTE: In these courses text-book outlines are supplemented with extra readings and with lectures illustrated with casts, photographs, and lantern views. Along with the tracing of the development of art in its different homes and epochs, an effort is made to lay some foundation for true appreciation and correct taste.

ITALIAN

MR. NELSON

1. ELEMENTARY COURSE. First Semester: Monday, Wednesday, Friday, 8.
Elementary Grammar, easy composition, reading, and conversation. DeAmicis, Cuore, and other selections will be read in the class.
Elective for all students who have completed the required work in French and German, or Spanish.

2. CONTINUATION OF COURSE 1. Second Semester: at the same hours.
Selected readings from modern authors. A brief survey of Italian literature. Conversation based on the Metodo-Berlitz.

JOURNALISM

PROFESSOR LIBBY

The object of the course is to give to students who intend to make Journalism their profession an understanding of the work
of writing news articles, preparing editorial matter, and managing newspaper offices and plants; and to such other students who elect the course a better understanding of the important part which newspapers are playing in educating the great masses of the people on subjects of national and international interest. Practical work of corresponding for State newspapers, interviewing men and women on various subjects, and preparing editorial matter for the College publications will be requirements.

1. **NEWS WRITING.** First Semester: Monday, Wednesday, Friday, 9.

   Study of news and news values, sources and collection of news, diction and style in news articles.
   Text-book.
   Prerequisite, Rhetoric 1, 3 or 2, 4.

2. **FUNCTION OF THE NEWSPAPER.** Second Semester: at the same hours.

   History of Journalism in the United States will form a background for the work of this Semester. The writing of editorial matter and special articles on assigned subjects will be required.
   Elective for those who have completed Course 1.

**LATIN**

**PROFESSOR TAYLOR AND ASSOCIATE PROFESSOR TREFETHEN**

1. **LIVY** xxii. First Semester: Monday, Wednesday, Friday, 8.

   Required of men of the Freshman class, B.A. Course.

   **PROFESSOR TAYLOR.**

2. **LIVY I: AGRICOLA OF TACITUS.** First Semester: Div. A, Monday, Wednesday, Friday, 9; Div. B, Tuesday, Thursday, Saturday, 11.

   Required of women of the Freshman class, B.A. Course.

   **PROFESSOR TAYLOR.**
   ASSOCIATE PROFESSOR TREFETHEN.

3. **ODES OF HORACE.** Second Semester: at the same hours as Course 1.

   Required of men of the Freshman class, B.A. Course.

   **PROFESSOR TAYLOR.**
4. **Odes of Horace.** Second Semester: at the same hours as Course 2.
   
   Required of women of the Freshman class, B.A. Course.
   
   **Professor Taylor.**  
   **Associate Professor Trefethen.**

   
   Elective for Sophomores of both Divisions.
   
   **Professor Taylor.**

6. **Quintilian X, XII: Tacitus, Dialogus de Oratoribus.** Second Semester: at the same hours.
   
   Elective for Sophomores of both Divisions.
   
   **Professor Taylor.**

   
   Elective for Sophomores of both Divisions.  
   Given in alternate years.
   
   **Professor Taylor.**

   
   Elective for Juniors and Seniors of both Divisions.  
   Given in alternate years.
   
   **Professor Taylor.**

9. **(a) Epistles of Horace.** Second Semester: at the same hours.
   
   Elective for Juniors and Seniors of both Divisions.

   **(b) Cicero's Orations: Vergil's Æneid.** Second Semester: at the same hours.
   
   A practical course for prospective teachers.  
   Elective for Juniors and Seniors of both Divisions.
   
   **Professor Taylor.**

**Mathematics**

**Professor Ashcraft, Associate Professor Carter, Associate Professor Trefethen, and Assistant Professor Runnals**

1. **Algebra.** First Semester: Div. A, Monday, Wednesday, Friday, 8; Div. B, Monday, Wednesday, Friday, 9; Div. C, Tues-
A rapid review of the principal topics of preparatory Algebra, including graphical representation; the binomial theorem for any exponent, permutations and combinations, logarithms, determinants, the complex number, theory of equations, etc.

Required of the men of the Freshman class.

PROFESSOR ASHCRAFT.
ASSOCIATE PROFESSOR CARTER.
ASSOCIATE PROFESSOR TREFETHEN.

2. SAME AS COURSE 1. First Semester: Div. A, Monday, Wednesday, Friday, 9; Div. B, Tuesday, Thursday, Saturday, 9; Div. C, Tuesday, Thursday, Saturday, 10; Div. D, Monday, Wednesday, Friday, 9; Div. E, Tuesday, Thursday, Saturday, 9.

Required of the women of the Freshman class.

PROFESSOR ASHCRAFT.
ASSOCIATE PROFESSOR TREFETHEN.
ASSISTANT PROFESSOR RUNNALS.

3. SOLID GEOMETRY AND PLANE TRIGONOMETRY.

(A) SOLID GEOMETRY. Second Semester: Div. A, Monday, Wednesday, Friday, 8; Div. B, Monday, Wednesday, Friday, 9; Div. C, Tuesday, Thursday, Saturday, 8; Div. D, Tuesday, Thursday, Saturday, 9.

Includes original demonstrations and the solution of problems relating to the surfaces and volumes treated.

Required of the men of the Freshman class who do not offer Solid Geometry for entrance.

(B) PLANE TRIGONOMETRY. Second Semester: at the same hours as Course 3 (A).

Trigonometric functions, and demonstrations of formulas; solution of right and oblique triangles, with practice in the use of logarithmic tables; problems and applications.

Required of the men of the Freshman class who do not offer Solid Geometry for entrance.

PROFESSOR ASHCRAFT.
ASSOCIATE PROFESSOR CARTER.
ASSOCIATE PROFESSOR TREFETHEN.
Courses of Instruction

4. SOLID GEOMETRY AND PLANE TRIGONOMETRY.

(A) SAME AS COURSE 3 (A). Second Semester: Div. A, Monday, Wednesday, Friday, 9; Div. B, Tuesday, Thursday, Saturday, 9; Div. C, Tuesday, Thursday, Saturday, 10.

Required of the women of the Freshman class who do not offer Solid Geometry for entrance.

(B) SAME AS COURSE 3 (B). Second Semester: at the same hours as Course 4 (A).

Required of the women of the Freshman class who do not offer Solid Geometry for entrance.

PROFESSOR ASHCRAFT.
ASSOCIATE PROFESSOR TREFETHEN.
ASSISTANT PROFESSOR RUNNALS.


Required of the men of the Freshman class who offer Solid Geometry for entrance.

PROFESSOR ASHCRAFT.

6. SAME AS COURSE 5. Second Semester: at the same hours as Course 5.

Required of the women of the Freshman class who offer Solid Geometry for entrance.

PROFESSOR ASHCRAFT.

7. ANALYTIC GEOMETRY. First Semester: Div. A, Monday, Wednesday, Friday, 8; Div. B, Monday, Wednesday, Friday, 10.

Study of the point, line, and conic sections; loci and their equations; elements of Analytic Geometry of space. Prerequisite for all subsequent courses.
Elective for Sophomores and Juniors.

PROFESSOR ASHCRAFT.
ASSOCIATE PROFESSOR CARTER.

8. ELEMENTARY DIFFERENTIAL AND INTEGRAL CALCULUS. Second Semester: at the same hours as Course 7.

Differentiation of simple functions; application to curves; maxima and minima; integration as the
inverse of differentiation; simple applications of integration to Geometry and Mechanics. 
Elective for those who have taken Course 7.

**Professor Ashcraft.**

**Associate Professor Carter.**

9. **Advanced Calculus.** First Semester: Tuesday, Thursday, Saturday, 10.

Differentiation of the more complex functions; theorems of Taylor and Maclaurin; partial and total derivatives; integration by special methods and by the aid of a table; the definite integral, length of curves, areas, centres of gravity, etc.
Elective for those who have taken Course 8.

**Professor Ashcraft.**

10. **Differential Equations and Analytic Geometry of Space.** Second Semester: at the same hours.

A course involving calculus applications to space curves, surfaces, and volumes; the solution of ordinary differential equations of Mechanics and Physics.
Elective for those who have taken Course 9.

**Professor Ashcraft.**

11. **Higher Algebra.** First Semester: Monday, Wednesday, Friday, 10.

Special topics of Algebra, such as determinants, series, symmetric functions of roots, etc., supplementing Course 1, 2. Solution of the cubic, the biquadratic, and $n$ linear equations in $n$ variables; eliminants and other invariants; coveriants, etc. In part a lecture course.
Elective for those who have taken Course 8.

**Professor Ashcraft.**

12. **Analysis and Modern Methods.** Second Semester: at the same hours.

A continuation of Course 11. Special topics of Analytic Geometry, supplementing Course 7; systems of coördinates; higher plane curves, making use of elementary Calculus; topics for teachers.
Elective for those who have taken Course 11.

**Professor Ashcraft.**

13. **Mechanics.** First Semester: Monday, Wednesday, Friday, 10.
Courses of Instruction

Statics; the composition, resolution and equilibrium of forces; stresses.
Problems solved analytically and graphically.
Kinematics; the rectilinear and curvilinear motions of a particle.
Elective for those who have taken Course 8.

ASSOCIATE PROFESSOR TREFETHEN.

14. MECHANICS. Second Semester: at the same hours.

Kinetics; the motion of a particle under the action of forces; work, energy, impulse, potential; dynamics of a rigid body.
Continuation of Course 13.
Elective for those who have completed that course.

ASSOCIATE PROFESSOR TREFETHEN.

15. SURVEYING. First Semester: Tuesday, Thursday, Saturday, 10-12.
Theory and use of instruments, with field and office work.
Elective for Seniors.

ASSOCIATE PROFESSOR CARTER.

16. CONTINUATION OF COURSE 15. Second Semester: at the same hours.
Elective for those who have taken that course.

ASSOCIATE PROFESSOR CARTER.

PHILOSOPHY, PSYCHOLOGY, AND EDUCATION

PRESIDENT ROBERTS AND ASSOCIATE PROFESSOR SAVIDES

Psychology

1. PSYCHOLOGY, GENERAL AND APPLIED. First Semester: Tuesday, Thursday, Saturday, Div. 1, 10; Div. 2, 11.
A study of the chief theories and facts of mental life or human behavior. Application of psychological principles to education and to life in general. Text-books, assigned reading, reports, discussions, and lectures. Part of the written work will be on topics selected by each student after consultation with the instructor.
Elective for Sophomores, Juniors and Seniors.

ASSOCIATE PROFESSOR SAVIDES.
2. **Continuation of Course 1.** Second Semester: at the same hours.

*ASSOCIATE PROFESSOR SAVIDES.*

**Philosophy**

3. **History of Philosophy.** First Semester: Monday, Wednesday, Friday, 8.

A survey of philosophical thought from the times of the Greeks to our own. The greatest philosophers will receive particular attention. The interaction of philosophy and other factors of civilization will be brought out. Without neglecting the theoretical side, the course aims to demonstrate the value of philosophy to daily life. Text-books, assigned reading, reports, discussions and lectures. Elective for Juniors and Seniors.

*ASSOCIATE PROFESSOR SAVIDES.*

4. **Continuation of Course 3.** Second Semester: at the same hours.

*ASSOCIATE PROFESSOR SAVIDES.*

5. **Ethics.** First Semester: Monday, Wednesday, Friday, 11.

After a short historical account of Ethics, the course will deal with ethical theories and moral problems in the daily conduct of the individual and society. Text-book, assigned reading, discussion, and lectures. Elective for those who have taken Course 1 and 2, or 3 and 4.

*ASSOCIATE PROFESSOR SAVIDES.*

6. **Religion and Some of its Problems.**

This course will be a brief comparative study of religion with emphasis on Christianity. Religious problems of our day will be discussed in the light of contemporary progress. Text-book, assigned reading, reports, discussions and lectures. Topics for special investigation may be selected by the students after consultation with the instructor. Prerequisite, Course 5.

*NOTE:* Courses 5 and 6 are given in alternate years.

*ASSOCIATE PROFESSOR SAVIDES.*
Courses of Instruction

Education

7. PROBLEMS AND PRINCIPLES OF EDUCATION. First Semester: Monday, Wednesday, Friday, 9.

A survey of modern education with special emphasis on theory that should guide students to meet intelligently problems in education. Text-books, prescribed reading, reports, discussions, lectures, and conferences. Part of the required work will vary according to the individual needs and interests of the students.

Elective for those who have taken Courses 1 and 2.

Given in alternate years.

PRESIDENT ROBERTS.

8. CONTINUATION OF COURSE 7. Second Semester: at the same hours.

Given in alternate years.

PRESIDENT ROBERTS.

[9. HISTORY OF EDUCATION. First Semester: Monday, Wednesday, Friday, 9.]

A historical study of education with special emphasis on the theory and practice of the greatest educators. The status of contemporary education will receive particular attention. Text-books, prescribed reading, reports, discussions and lectures.

Elective for those who have taken Course 1 and 2.

Given in alternate years.

PRESIDENT ROBERTS.

[10. CONTINUATION OF COURSE 9. Second Semester: at the same hours.]

Given in alternate years.

PRESIDENT ROBERTS.

PHYSICS

PROFESSOR WHEELER AND MR. STANLEY

1. GENERAL PHYSICS. Men's Division. First Semester.

2. GENERAL PHYSICS. Women's Division. First Semester.

3. GENERAL PHYSICS, continued. Men's Division. Second Semester.

Physics 1, 2, 3, and 4 include two hours of lectures and recitations and one two-hour laboratory exercise per week. Div. A, Monday, Wednesday, 10; Div. B, Tuesday, Thursday, 10; Div. C, Tuesday, Thursday, 11. Laboratory hours, Monday, 1.30-3.30; Tuesday, 1.30-3.30; Thursday, 1.30-3.30; Friday, 1.30-3.30.

General physics consists of fully illustrated courses of experimental lectures and recitations on the general principles of Mechanics, Properties of Matter, Heat, Sound, Light, Magnetism and Electricity, accompanied by practical work in the laboratory, in which the students perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the class-room.

The purpose of these courses is to acquaint the student with the fundamental physical principles whose discovery and application have made possible the development of the steam-engine, the steamboat and locomotive; the dynamo, modern lighting and electric transportation; the internal combustion engine, the automobile and the aeroplane; the telephone, telegraph, wireless communication and many other practical applications—principles concerning which it would seem that a college graduate should have at least a general knowledge. The courses are also designed to serve as a basis for further work in physics for those who intend to teach science, study medicine or prepare for the profession of engineering.

The work follows a standard text-book and specially prepared laboratory direction sheets.

Courses 1 and 3 are required of B.S. Freshmen of the Men’s Division; Courses 2 and 4 are required of B.S. Freshmen of the Women’s Division. Elective for Sophomores, Juniors and Seniors.

Professor Wheeler.
Mr. Stanley.

5. Experimental Physics. First Semester: Div. A, Tuesday, Thursday, Saturday, 8-10; Div. B, Tuesday, Thursday, Saturday, 10-12.

Elective for those who have passed Mathematics 1 and 3 or 5, or 2 and 4 or 6, as well as Physics 1 and 3, or 2 and 4.

Elective for those who have completed Physics 5. Courses 5 and 6 treat more in detail the principles studied in Physics 1, 2, 3, and 4. Practice is afforded in setting up and adjusting delicate physical apparatus, in making precise physical measurements and in the judicious interpretation of results. The aim is to give some insight into the manner of carrying on scientific investigations. The greater part of the work will be in the laboratory, though recitations and lectures will be held occasionally. These courses are especially designed for those who intend to teach physics, or to study medicine or engineering; and they are required as preparation for the engineering courses, or for those who wish to enter with advanced standing the Massachusetts Institute of Technology or other technical schools.

**Professor Wheeler.**

**Mr. Stanley.**


The purpose of this course is to give a more thorough training in the mathematical principles and refined measurements of thermal phenomena than is possible in the earlier courses. Its character is indicated by the following outline: the nature and difficulties of precise heat measurements, the variation of the physical properties of matter with temperature, the thermal behavior of actual gases and vapors as distinguished from ideal gases, the kinetic theory as extended to these cases, the production and measurement of high and low temperatures, and the behavior of bodies under these conditions; laws of conduction, radiation, selective absorption, diathermancy, and general phenomena of radiant energy; the mechanical theory of heat, its inception, discovery, and import; fundamental principles of thermodynamics, and their application to useful processes other than those of heat engines. Some attention is paid to the historical side of the subject, as being an aid to a better understanding of the principles involved.

Elective for those who have completed Mathematics 8, and are pursuing Mathematics 9, and have passed Physics 1 and 3, or 2 and 4.

Given in alternate years.

**Professor Wheeler.**
8. THERMODYNAMICS OF HEAT ENGINES. Second Semester: at the same hours as Physics 7.

This course is intended to give not only theoretical, but practical instruction. It is especially designed to supplement the electrical engineering courses, by giving what is essential to them of mechanical engineering. The course covers: the principles of the conversion of heat energy into mechanical power, in all forms of heat engines,—e.g. steam (including reciprocating and turbine engines) gas, vapor, oil, hot-air, and solar engines; mechanical refrigeration and air compressors; the essentials of the mechanism employed, valve gears, and engine tests. Some problems and the working up of an engine test are required.

Given in alternate years.
Elective for all who have completed Physics 7, and Mathematics 9.

PROFESSOR WHEELER.

9. MAGNETISM AND ELECTRICITY. First Semester: Wednesday, Friday, 9. Laboratory hours, Monday, 8-10.

Elective for Sophomores, Juniors and Seniors who have taken or are taking Mathematics 7 and Physics 5.

10. MAGNETISM AND ELECTRICITY, continued. Second Semester: at the same hours as Physics 9.

Elective for those who have completed Physics 9 and have taken or are taking Mathematics 8.

Physics 9 and 10 cover more in detail than is possible in the earlier courses the general principles of magnetism and electricity required for work in electrical engineering. The content of these courses may be indicated as follows: magnetic elements and measurements; testing magnetic qualities of iron; measurements of resistance and temperature coefficient of resistance; electrical resistance thermometers; use of standards of electromotive force, self and mutual inductance, and capacity; insulation and capacity tests; electrolytic conduction; discharge of electricity through gases, testing of rectifying and amplifying vacuum tubes; elementary theory of alternating currents; electrical oscillations and radiation; thermo-electricity; electric light photometry.

PROFESSOR WHEELER.
MR. STANLEY.
11. **Electrical Engineering.** First Semester: Wednesday, Friday, 8; Laboratory hours, Wednesday, 1.30-3.30.

A review and further consideration of current flow in circuits; the laws of electromagnetism and of the magnetic circuit; construction, use and protection of electrical measuring instruments; laboratory determinations of the operating characteristics of direct current machinery; theory and practical management of direct current motors and generators; preparation of reports. Some attention will be paid to the theory, care and use of storage batteries.

Elective for those who have taken Physics 9 and 10.

**Professor Wheeler.**

12. **Elementary Alternating Current Engineering and Wireless Telegraphy.** Second Semester: at the same hours as Course 11.

Laws of alternating current circuits; theory and operating characteristics including practical testing, of alternating current machinery; electrical waves and oscillations; telegraph, telephone and radio communication.

Elective for those who have taken Physics 11.

**Professor Wheeler.**

[13. **Radioactivity.** First Semester: Monday, Wednesday, Friday, 11.]

Radioactive substances; ionization of gases; methods of measurement or radiations from radioactive bodies; alpha, beta and gamma rays; properties of these radiations; continuous production and decay of radioactive matter; theory of successive transformations; production of helium; general survey of uranium, actinium and thorium and their known products; general results and relations.

Elective for those who have completed Mathematics 8 and Physics 1 and 3, or 2 and 4.

Offered in 1922-1923 and alternate years.

**Professor Wheeler.**

[14. **Molecular Physics.** Second Semester: at the same hours as Physics 13.]

The general character of this course is indicated by the following outline: sources of the modern theory of matter; methods of determining atomic sizes; X-rays and crystal structure; discovery and
measurement of the electron; positive rays; the contribution of radioactivity to our knowledge of sub-atomic structure of matter; theories of the structure of the atom; the Rutherford atom.

Elective for those who have completed Physics 13. Offered in 1922-1923 and alternate years.

Professor Wheeler.

PUBLIC SPEAKING

President Roberts and Professor Libby

Students intending to pursue all the courses offered in this Department are strongly urged to elect courses in Latin, Greek, History, Economics, and Polities. Students should remember that public speakers must possess a knowledge of many things, and that all courses offered in the college curriculum contribute to their store of information. The suggested courses of study mentioned above are such as can best be studied under instructors, while the facts that should be gained from other important fields can be had from outlined courses of reading. The more advanced courses offered by the Department are intended as a means of increasing the students' power of usefulness in directing public opinion.

Students especially interested in the work of the Department may have fuller information about the courses offered, prizes to be contested for, and the various organizations allied with the Department, by applying for the Special Bulletin on Public Speaking issued by the College.

   Drill in articulation and pronunciation. Careful study and analysis of selections read. Memorizing of poems.
   Required of the men of the Freshman class.
   President Roberts.

   Printed Lecture Notes with Exercises based upon the notes. Study of voice, posture, gesture, speaking.
   Required of the women of the Freshman class.
   Professor Libby.
3. **PUBLIC SPEAKING.** Continuation of Course 1. Second Semester: Wednesday, 1.30.

   Work of the semester ends with a prize declamation.
   Required of the men of the Freshman class.

   **PRESIDENT ROBERTS.**

4. **PUBLIC SPEAKING.** Continuation of Course 2. Second Semester: Wednesday, 1.30.

   Study of the Mental Processes in Speaking. Work of the semester ends with a public prize reading.
   Required of the women of the Freshman class.

   **PROFESSOR LIBBY.**

5. **PUBLIC SPEAKING,** with special study of the theory of Argumentation and Debate. First Semester: Monday, Thursday, Friday, 1.30.

   The work consists of two distinct parts: viz, (a), a study of the theory of argumentation and debate, based upon Lecture Notes on Argumentation and Debating; and (b), preparation of briefs and arguments, classroom and public debates, and preliminary speaking in the annual Murray Prize Debate.

   Elective for students of the Men's Division who have completed first-year Rhetoric.

   **PROFESSOR LIBBY.**

6. **PUBLIC SPEAKING.** Second Semester: at the same hours as Course 5.

   The work consists of three parts: viz, (a), a study of voice culture; (b), platform work in class on subjects previously assigned, and preliminary speaking in the annual Hallowell Prize Speaking Contest; (c), lectures covering all kinds of public addresses, and a brief history of oratory.

   Elective for students who have completed Course 5.

   **PROFESSOR LIBBY.**

7. **PUBLIC SPEAKING.** First Semester: Monday, Thursday, Friday, 3.30.

   Essentially the same as Course 5, except that students will not be required to take part in the Murray Prize Debate, but will be required to debate before the student body on some proposition of general interest.
Elective for students of the Women's Division who have completed first-year Rhetoric.

Professor Libby.

8. PUBLIC SPEAKING. Second Semester: Monday, Thursday, Friday, 3.30.

Essentially the same as Course 6, except that students will not be required to contest for the Hallowell Prizes but will be required to take part in the preliminary speaking for the Coburn Prizes.

Elective for students of the Women's Division who have completed first-year Rhetoric and Course 7.

Professor Libby.

9. ADVANCED PUBLIC SPEAKING. First Semester: Monday, Thursday, Friday, 2.30.

The work of the course consists of the study of an approved text-book on the general subject of the writing and delivery of addresses, of the writing of at least four public addresses of approximately 3,000 words each, of giving one public address before the student body, of taking part in the preliminary speaking in the Goodwin Prize Speaking Contest, and of frequent conferences with the instructor. The primary purpose of this advanced course is to assist men who intend to follow professions such as the law, ministry, and public service in which much public speaking is demanded.

Elective for men of the Junior and Senior classes who have completed satisfactorily Courses 5 and 6.

Professor Libby.

10. ADVANCED PUBLIC SPEAKING. Continuation of Course 9. Second Semester: at the same hours.

The work of the second semester consists largely of conferences. Three addresses of approximately 3,000 words each will be required. A careful study will be made of the structure of some of the great masterpieces of Oratory. At least one public address must be delivered during the semester. Students will be required to assist the Department in training men of other classes for public exhibitions.

Elective for those who have taken Course 9.

Professor Libby.

11. INTERCOLLEGIATE DEBATE. First and Second Semester,
Courses of Instruction

extending from the middle of November to the middle of April:
Monday, 4.30, Tuesday, 3.30, Wednesday, 4.30.

The work of the course consists of an intensive study of the theory of argumentation, analysis of intercollegiate debate propositions, much platform work, and participation in intercollegiate debates. The course is open to such students as show unusual ability in debate. Counts as a three-hour semester course.

PROFESSOR LIBBY.

SPANISH

ASSOCIATE PROFESSOR HARRY AND MR. NELSON


A study of the Spanish Grammar with abundant oral and written exercises. Reading, composition, conversation. The best features of the direct method are employed.
For requirements in Modern Languages, see pages 51-52.

ASSOCIATE PROFESSOR HARRY.
MR. NELSON.

2. ELEMENTARY SPANISH, continuation of Course 1. Second Semester: at the same hours.

Translation of modern prose. Conversational Drill.
Requirements same as in Course 1.

ASSOCIATE PROFESSOR HARRY.
MR. NELSON.

3. INTERMEDIATE SPANISH. First Semester: Monday, Wednesday, Friday, 9.

Translation of selected texts, such as Galdós, Marianela and Electra; Alarcón, El Capitán Veneno. Composition and conversation.
Elective for students who have completed Courses 1, 2.

ASSOCIATE PROFESSOR HARRY.

4. INTERMEDIATE SPANISH. Continuation of Course 3. Second Semester: at the same hours.

ASSOCIATE PROFESSOR HARRY.
5. COMMERCIAL SPANISH. First Semester: Tuesday, Thursday, Saturday, 10.

Commercial correspondence. Drill in oral composition. The vocabulary of every-day life is emphasized.
Courses 1, 2 prerequisite.
MR. NELSON.

6. COMMERCIAL SPANISH, continued. Second Semester: at the same hours.
Courses 1, 2 prerequisite.
MR. NELSON.

7. SPANISH CLASSICS. First Semester: Monday, Wednesday, Friday, 8.

Cervantes (Selections from Don Quixote); Lope de Vega, and Calderón. Fitz-Maurice Kelley, History of Spanish Literature. A study is made of the main currents of Spanish literature from El Poema del Cid to the eighteenth century.
Elective for students who have completed Courses 3, 4.
ASSOCIATE PROFESSOR HARRY.

8. SPANISH CLASSICS. Second Semester: Continuation of Course 7, at the same hours.
ASSOCIATE PROFESSOR HARRY.

PHYSICAL EDUCATION AND ATHLETICS

ASSOCIATE PROFESSOR C. HARRY EDWARDS, B.P.E.
MR. JOHN B. MCAULIFFE, Coach of Football
MR. MICHAEL J. RYAN, Coach of Track

Physical Education is required of all members of the Sophomore and Freshman classes. Members of these classes participating in the Varsity sports are excused from the work during the period of such participation. The work consists of gymnastic marching, posture exercises, co-ordinating exercises, calisthenics, group games, etc. In cases where it is advisable, individual work will be assigned. A physical examination of all members of the classes will be made at the beginning of each semester.

Hours for classes: Freshman, Div. A, Monday, Wednesday, Friday, 11; Div. B, Tuesday, Thursday, Saturday, 11; Sopho-
Courses of Instruction


The equipment for Physical Education and Athletics consists of a Gymnasium, 70 x 45, containing Basketball court; adjoining are locker and shower rooms containing 250 new lockers and up-to-date shower baths. A fee will be charged each semester for locker and towel and laundry service. An up-to-date athletic field, known as Seaverns Field, with the best one-fourth mile cinder track in the State, one-hundred and two-hundred-twenty yard straightaways; new concrete stadium, with seating capacity of 3,000; football and baseball fields. Inter-class and inter-fraternity leagues are promoted in all branches of sport.

TENNIS. Intercollegiate, inter-fraternity and inter-class tournaments are annually arranged.

COURSES OFFERED

1. PHYSIOLOGY. First Semester: Monday, Wednesday, Friday, 8.

A general study of physiology of the human body.
Recitations, lectures, and experiments.
Elective for Sophomores, Juniors, and Seniors.
ASSOCIATE PROFESSOR EDWARDS.

2. PHYSIOLOGY, HYGIENE AND SANITATION. Second Semester: at same hours.

Continuation of Physiology 1, but with the addition of lectures, discussions of Sanitation and its relation to health and disease.
Elective for students who have had Physiology 1.
ASSOCIATE PROFESSOR EDWARDS.

NOTE: A study of Personal Hygiene, dealing with the care of the body in health and illness and general topics of Hygiene in connection with the group or community, will take the place of one hour of Physical Education.
Required of Freshmen.

Athletics

This department is well organized and has adequate equipment for representative 'Varsity sports. The recognized sports for which awards of the Colby "C" are given to men who fulfill the requirements are as follows: Football, Cross Country, Relay
Teams, Baseball, Track, Tennis. The organization of Basketball and Hockey will presently require recognition by the Athletic Council. The organization of the Outing Club for the carrying on of winter sports increases the opportunities for a wider participation in athletics.

**Track and Field.** Directed by Mr. Ryan, Coach; L. H. Cook, '22, Captain; F. T. McIntire, '23, Manager. Mr. Ryan is champion and record holder, member of the 1908 and 1912 American Olympic teams and member of the Board of Coaches of the American Olympic Team which contested at Antwerp, Belgium, in 1920. Excellent opportunities for cross country running, Relay Races, and Field Sports. Participation in the Maine, New England, and National Intercollegiate Championships; Boston Athletic Association games and the University of Pennsylvania Relay races.

**Football.** Directed by Mr. McAuliffe, Head Coach, former Captain of Dartmouth and All-American choice for tackle; William J. Brown, '23, Captain; John L. Dunstan, '23, Manager.

Schedule for 1922:

<table>
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<tr>
<th>Team</th>
<th>Date</th>
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<tr>
<td>Springfield College</td>
<td>September 23</td>
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<tr>
<td>Boston University</td>
<td>September 30</td>
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<td>Brown University</td>
<td>October 7</td>
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<td>Bates College</td>
<td>October 14</td>
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<td>Bowdoin College</td>
<td>October 21</td>
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<td>University of Maine</td>
<td>October 28</td>
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<td>Lowell Textile</td>
<td>November 4</td>
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<td>Holy Cross</td>
<td>November 11</td>
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**Baseball.** Coach not yet appointed. E. L. Williams, '22, Captain; G. F. Terry, Jr., '23, Manager.

Schedule for 1922:

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<tr>
<th>Team</th>
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<tr>
<td>University of Maine</td>
<td>April 19</td>
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<td>Harvard College</td>
<td>April 24</td>
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<td>Tufts College</td>
<td>April 25</td>
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<td>Brown University</td>
<td>April 26</td>
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<td>Rhode Island State</td>
<td>April 27</td>
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<td>Lowell Textile</td>
<td>May 5</td>
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<td>New Hampshire State</td>
<td>May 6</td>
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<td>Bowdoin College</td>
<td>May 10</td>
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<tr>
<td>New Hampshire State</td>
<td>May 12</td>
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<td>University of Maine</td>
<td>May 17</td>
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<td>Open</td>
<td>May 20</td>
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<td>Bowdoin College</td>
<td>May 24</td>
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<td>Bates College</td>
<td>May 27</td>
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HYGIENE AND PHYSICAL EDUCATION

BERTHA MAY BELL ANDREWS

PURPOSE. The Department of Hygiene and Physical Education aims for the health of each individual student through theoretical work in hygiene, anatomy, and physiology together with practical work in the gymnasium and out-of-doors, and through the establishment of right habits of living.

As food is important to health, a trained dietitian now provides pure and well-prepared foods in the dormitory so as to give each student the required number of calories per day.

HEALTH LEAGUE. Any woman upon matriculation in the Women's Division of Colby College shall automatically become a member of the Women's Health League.

The purpose of this League shall be to promote constantly and consistently health standards. This purpose shall be expressed in the motto of the League "Mens sans in corpore sano." The League shall heartily cooperate with the college department of hygiene.

EXAMINATIONS. The needs of each student are ascertained by a careful medical and physical examination in the fall. From data carefully recorded at this time advice and prescription of physical exercises are given to assist the student to regain or retain the health of every organ of the body. To note improvement and give further advice students are re-examined in the spring or whenever found necessary.

When a student's physical condition is such that more time is necessary to regain health than the college curriculum permits, she may be asked to withdraw temporarily from the college until her condition justifies her return.

All illness must be reported to the Director of the Department at once.

All absences from academic work due to illness must be excused by the Director.

EQUIPMENT. Funds are now being secured to provide a suitable place for carrying on the work. This will include gymnasium
with showers, dressing rooms, class-rooms, and swimming pool. At present a room in the basement of Foss Hall is available. Land in the rear of Foss Hall and Foster House has been graded and made into a hockey field which can easily be flooded for a skating rink in the winter. Two new tennis courts with substantial back-stops have been built in the rear of the Dunn property.

**NOTE:** All practical work in the department requires a costume. This should be purchased through the college before entering so as to secure uniformity at the least expense and with as little delay to the work as possible.

**THEORETICAL WORK**

1. **HYGIENE.** First Semester. Monday, 1.30.
   
   A study of the proper management, protection and care of the human body for the preservation of health.
   
   Required of the women of the Freshman class.

2. **HYGIENE.** Second Semester: Monday, 1.30.
   
   A continuation of Hygiene 1.
   
   Required of the women of the Freshman class.

3. **HUMAN PHYSIOLOGY.** First Semester: Monday, Wednesday, Friday, 8.
   
   The study of blood and lymph and their circulation, physiology of the organs of circulation, mechanics and control of respiration, also tissue respiration.
   
   Elective for Juniors and Seniors.

4. **HUMAN PHYSIOLOGY.** Second Semester: at the same hours.
   
   A continuation of Course 3. Physiology of digestive glands, mechanism of digestion, excretion, metabolism, ductless glands, the central nervous system and the control of muscular activity, special senses and physiology of reproduction.
   
   Elective for Juniors and Seniors.

5. **GYMNASTIC TEACHING.** First Semester, Tuesday, Thursday, Saturday, 8.
   
   This course aims to give such technical and theoretical knowledge of gymnastics, games, folk dancing and aesthetic work as will enable a teacher
to supplement her other work with a brief course in Hygiene and Physical Education. Elective for Juniors and Seniors.

6. GYMNASTIC TEACHING. Second Semester: at the same hours.
A continuation of Course 5 with practice teaching at such hours as classes can be arranged for. Elective for Juniors and Seniors.

PRACTICAL WORK

Required of Freshmen.

2. GYMNASTICS. Second Semester: at the same hours.
Required of Freshmen.

Required of Sophomores.

4. GYMNASTICS. Second Semester: at the same hours.
Required of Sophomores.

5. GYMNASTICS. First Semester: Tuesday, Thursday, 2.30.
Required of Juniors.

6. GYMNASTICS. Second Semester: at the same hours.
Required of Juniors.

7. GYMNASTICS. First Semester: Tuesday, Thursday, 3.30.
Required of Seniors.

8. GYMNASTICS. Second Semester: at the same hours.
Required of Seniors.

NOTE: The gymnastic hour is devoted to practical floor drills, carefully selected and graded to meet the qualifications of each class, individual health exercises, apparatus work, folk and aesthetic dancing. The gymnastic hour is devoted to games in the fall and spring. In the fall such games as field hockey, tennis and volley ball are participated in. In the spring tennis and girls' baseball are played; skating and basket ball are open to the young women in the winter.

The indoor work ends with a gymnastic meet. Field Day closes the outdoor work in the spring.
PRE-TECHNICAL COURSES IN SCIENCE

To meet the growing demand for additional scientific training, and to prepare students in advanced work leading to technical courses in Mechanical, Civil, Electrical, Sanitary, and Mining Engineering, Architecture, and Medicine, the Board of Trustees, upon recommendation of the Faculty, in January, 1908, made a number of additions to the curriculum. These courses will be found described in detail under Mathematics, Drawing and Astronomy, Physics, Chemistry, Geology, and Biology.

Furthermore, arrangements have been made whereby students taking such courses, under the direction of the Faculty, will be admitted to advanced standing of at least Junior grade in the Massachusetts Institute of Technology, or other schools of similar excellence. In this way the combined College and Professional or Technical Courses may be completed in six years or less.

OUTLINED COURSE OF STUDY FOR PRE-MEDICAL STUDENTS

For pre-medical students who intend to remain but two years in college, the following courses are suggested:

FRESHMAN YEAR. Biology, Chemistry, French or German, Physics, and Rhetoric.

SOPHOMORE YEAR. Two courses in Chemistry (including Organic Chemistry and laboratory work); English, Physics (including laboratory work); Zoology (including vertebrate work and embryology).

ARTHUR JEREMIAH ROBERTS LECTURE FOUNDATION

On June 21, 1906, the late Hon. William Wallace Stetson gave the College a trust fund, to be known as the Arthur Jeremiah Roberts Lecture Foundation, the income of which amounting to two hundred dollars a year, is to be expended by the Trustees named in the trust agreement for the maintenance of a lecture course in the College. The speakers are to be chosen by the Trustees of the Foundation, and, in the language of the agreement, must be persons "who have done something worthy of mention, who have a message, and who can deliver it in such a manner as will be helpful to college students".

The lecturer for 1921 was Rev. Samuel M. Crothers, D.D., of Cambridge, Mass.
EQUIPMENT

The College Buildings

Colby College is located in Waterville, on the west bank of the Kennebec River. The college buildings, thirteen in number, occupy an extensive campus in the northern part of the city, between College Avenue and the river.

MEMORIAL HALL

This building, erected as a memorial to the alumni of the College who fell in the service of their country during the Civil War, is located at the south end of the campus. It is built of gray stone and has a clock tower 80 feet in height. It contains the College Chapel and the College Library. On the first floor of the western wing is the Chapel. Above this is the Hall of the Alumni, now used as the reading-room of the Library. Here is found the Memorial Tablet to the soldier dead, surmounted by a copy, in marble, of Thorwaldsen's Lion of Lucerne. Here also are portraits of distinguished friends and benefactors of the college, and the bronze tablet erected by the New York Colby Alumni Association in memory of Edward Winslow Hall, LL.D., of the class of 1862, Librarian of the College from 1873 until his death in 1910. The eastern wing of the building contains the stack-room of the Library.

THE LIBRARY

The College Library occupies the second floor of the western wing of Memorial Hall and the entire eastern wing. The eastern wing contains the stack-room and work-room. The reading-room is on the second floor of the western wing, above the Chapel. This room, 39 by 58 feet, provides attractive and well-lighted quarters for reading and study. The furnishings are of the most approved modern pattern, including tables and chairs for seventy-two readers. In this room are found the reference books, a general collection of twelve thousand volumes of special value to the student, the collection of bound magazines numbering about three thousand, and the current periodicals, of which the Library regularly receives about one hundred. Books selected by members of the Faculty for reading in connection with class
work are reserved on special shelves conveniently located for the use of students. The Library is a government depository and regularly receives the public documents issued by the United States Government.

The Library contains more than fifty-eight thousand bound volumes and several thousand unbound pamphlets. Annual accessions average more than one thousand volumes. The entire collection is classified by the Decimal Classification and is supplied with a dictionary card catalogue. Freshmen are given individual instruction in the use of the card catalogue, reference books, and the Reader's Guide. The Librarian and his assistants are always ready to lend their aid to all users of the Library.

The Library is open, during term time, on weekdays from 8.30 A.M. to 12 M., from 1.30 to 5.30 P.M., and from 7 to 9 P.M. On Sunday the reading-room is open from 2 to 5, and from 7 to 9 P.M.

The library of the Department of History, located in the rooms of the department, numbers about 5,000 volumes, and is of special value to students of history.

**CHAMPLIN HALL**

This building is named after President James T. Champlin, D.D., LL.D., in recognition of his distinguished service while at the head of the College. It occupies a central position on the campus and is used as a recitation hall. It contains the classrooms of the Departments of Greek, German, and History, and the Library of the Department of History; the collection of large photographs for the study of Art; a large room on the second floor newly fitted up and equipped with specially designed desks for the use of the classes in Mechanical Drawing.

**CHEMICAL HALL**

Chemical Hall is thoroughly modern in plan and equipment. The building contains, on the first floor, a large laboratory, 36 x 54 feet in size, devoted to the work in General Chemistry; a laboratory for quantitative analysis; a balance room; furnace and glass blowing room containing an apparatus for forced draft; a lecture room capable of seating one hundred persons in seats arranged in rising tiers and equipped with a lecture table provided with gas and electric service, and an excellent projec-
tion lantern; private laboratory and an office for the use of instructors; a stock room for lecture apparatus and chemicals, and a department library.

In the basement are the recently constructed laboratories for qualitative analysis and organic chemistry. The qualitative laboratory will accommodate sixty-four students and the organic laboratory thirty-eight. These rooms are well equipped in every way for their special work. A large apparatus room and two chemical stock rooms conveniently arranged are also located on this floor.

The Chemical Laboratories are well planned and equipped. Each student is provided with a table for individual work, and is supplied with the required apparatus and reagents. They are likewise equipped with a great variety of special apparatus consisting in part of analytical balances, molecular weight apparatus, spectrosopes, polariscopes, projection apparatus, Abbé Pebble Mill, centrifugal machine, physical and electro-chemical apparatus, furnaces of different types, etc.

In all, thirteen rooms in this building are devoted to the work of the Department of Chemistry.

The second floor of the building contains the President's office and lobby, the Faculty room, and four large class-rooms.

**SHANNON PHYSICAL LABORATORY**

The Shannon Observatory and Physical Laboratory constitutes one of the first gifts to the college from an honored alumnus and one of the most generous benefactors of Colby, the late Hon. Richard Cutts Shannon, LL.D., of the class of 1862. In presenting the Shannon building to the college in 1889, he provided a greatly appreciated home for the Department of Physics, which occupies the main building, a two-story brick structure with basement. The southern portion of the building consists of a tower, surmounted by a dome in which is the Astronomical Observatory equipped, among other things, with an astronomical telescope of four-inch objective.

The Department of Physics is well equipped with the necessary apparatus for a year's work in General Physics. It also possesses apparatus for advanced work in light, and a laboratory of standards for electrical and magnetic measurements.

There is on the first floor, a well-equipped laboratory for Electrical Engineering, containing both direct and alternating
current dynamos and motors, transformers, and a well selected set of measuring instruments for this work; a smaller laboratory and workshop facilities. The lecture-room, offices of the department, and a large General Physics laboratory occupy the entire second floor of the main building. A wireless room, equipped with modern apparatus, is located in the tower.

COBURN HALL

Coburn Hall is so named in acknowledgment of benefactions from one of the most liberal friends of the College, Hon. Abner Coburn. The building is entirely devoted to the Departments of Geology and Biology. It is of rough quarried stone, with granite trimmings, the walls being 56 x 48 feet, and 41 feet high.

The Geological Laboratory is provided with collections to illustrate the lectures in Mineralogy, Geology, Paleontology, and Physical Geography. The Mineral Collection embraces over 3,500 specimens, including many that are well crystalized. The Paleontological Collection includes a suite of the most characteristic American fossils, and some of the foreign ones. The Geological Cabinet includes among other things Rosenbusch's set of 490 massive rocks and 100 European crystalline schists, and the U. S. Geological Survey educational series of 150 specimens of typical American rocks. The Department is well equipped with numerous lantern slides for the illustration of the geological lectures. A set of 175 crystal models affords opportunity for the study of crystallography.

The Biological laboratory occupies the second floor and one room on the first floor of the building. It is supplied with illustrative material for laboratory and lecture uses, consisting of charts, models and specimens, microscopes, microtomes, paraffin baths, lanterns, and both microscopic and lantern slides. Each student is supplied with a seat at a table and has the use of a compound microscope and instruments for dissection.

RESIDENCE HALLS

Men's Division

Chaplin Hall, named in memory of Colby's first President, Rev. Jeremiah Chaplin, D.D., and South College are brick dormitories, each eighty by forty feet and four stories in height.
Each building accommodates about fifty students. The south half of Chaplin Hall is occupied by the Delta Upsilon fraternity and the north half by the Lambda Chi Alpha fraternity. South College is occupied by two fraternities, Zeta Psi and Alpha Tau Omega. Both buildings are heated by steam and lighted by electricity, and provided with toilet rooms and shower baths. In each of the fraternity divisions, the lower floor is arranged for social purposes with parlor, reception and reading room, and lobby, and the upper floors contain the chapter hall and the study and sleeping rooms of the students.

Robert's Hall, erected in 1911, and Hedman Hall, in 1914, are brick and stone buildings of the same plan, three stories high, furnishing accommodations for forty students each. The rooms are in suites, consisting of a large study, a bedroom and an ample closet. On every floor there is a toilet room, with shower bath and lavatories. All rooms are provided with the necessaries of furniture, a table, a chair and a cot and mattress for each student. Plans of the dormitories with schedule of charges for room rent will be provided upon application.

**Women's Division**

Eliza Foss Hall, the gift of Mrs. William H. Dexter, opened for students in September, 1905, stands on College Avenue, near the college campus. In addition to the well-furnished double and single rooms which accommodate seventy-five students, the building provides an Assembly Hall, an attractive reading room, and a room used as a gymnasium.

Mary Low Hall is a smaller residents hall used for those who cannot be accommodated in Foss Hall; and Dutton House is available for the same purpose. Mary Low Hall, formerly known as the Palmer House, is named in honor of Mrs. Mary Low Carver, the first woman graduated from Colby College. The Foster House, adjacent to Foss Hall and for many years the home of the late Professor John B. Foster, is the latest dormitory to be added to those occupied by the women of the College.
ADMINISTRATIVE RULES

I. REGISTRATION

Students are required to register on Thursday, the opening day of the first semester, at the Registrar's office.

II. ADVISERS

Immediately after the Easter recess each student is assigned to one of the members of the faculty, who becomes his special adviser; so far as may be practicable, he is assigned to the particular member of the faculty whose experience is best calculated to aid him in the course of study he wishes to pursue and with reference to his preparation for his future career. It is the duty of this officer to find out the qualifications and needs of the students so assigned to him, and to keep himself informed as to their progress in their studies and as to their general moral and physical welfare.

President Roberts is the adviser for the Men's Division of the Freshman Class until Easter. The Dean of the Women's Division is adviser for the Women's Division of the Freshman Class until Easter.

III. ELECTION OF STUDIES

Each student is expected to consult with his adviser from time to time as to his college work, or any matter relating to his college life. Students must take a minimum of fifteen hours per week. Should a student desire to elect eighteen hours, he must secure the consent of his adviser, as well as that of the instructors of the courses he wishes to take. No student can take more than five courses unless during the previous semester his average rank has been 80% or more. A student deficient in one or more courses or in entrance may, with the consent of the Faculty, take six courses, even if his average rank during the previous semester has not been 80%. Freshmen, Sophomores and Juniors must elect studies for the following year on the Friday preceding final examinations. No student will be allowed to change his elections after the opening day of the college year, except with the consent of his adviser and the approval of the Faculty.
IV. PETITIONS

Whenever a student has occasion to petition the faculty, he is required to do so in writing, stating the reasons for his request.

V. EXAMINATIONS

Oral or written examinations of all classes are to be held at the close of each semester. The final examinations of all classes end on the Friday before Commencement, with the exception of the Senior Class, whose final examinations end on the second Thursday preceding Commencement. If a Senior is permitted to take a course not open to Seniors, he shall take the regular examination of that course. No Senior shall be allowed to take any examination after the Friday next preceding Commencement week.

Examinations on deficiencies shall be held at the time of the semester examinations, and also on the third Wednesday of each semester.

VI. STANDING AND DEFICIENCIES

In making up a student’s mark, the emphasis is placed upon the daily work rather than upon the final examination.

The rank in each course for the semester is indicated on a scale of one hundred percent. “A” signifies a rank of ninety per cent. to one hundred per cent.; “B”, a rank of eighty per cent. to eighty-nine per cent.; “C”, a rank of seventy per cent. to seventy-nine per cent.; “D”, a rank of from sixty per cent. to sixty-nine per cent.; “E”, a rank of fifty per cent. to fifty-nine per cent.; “F”, a rank of less than fifty per cent.

A student who receives “E” as a semester mark in any course, fails in that course. If the deficiency is in a required course, he may repeat the course in class; or else prepare for a deficiency examination under a tutor approved by the instructor, such examination to be taken at the time specified for deficiency examinations. The student may not take such examination until his tutor has reported to the instructor that he is prepared to do so. In the case of an elective course the student may, by permission of the Faculty, substitute another course.

A semester mark of “F” signifies that the course cannot be made up by examination.

Incomplete work must be made up within limits prescribed
by the instructor, or the course shall be marked as a failed course.

At the end of the first half of each semester, a student whose rank in any course falls below sixty per cent. is warned thereof by the Registrar. A report of any student's deficiencies will, at the conclusion of each semester, be sent to him and his parents.

No student with more than three deficiencies shall enter the succeeding class, or be retained in college after the third Wednesday of the academic year.

Whenever, in the judgment of the Faculty, a student has proved himself unable or unwilling to do college work, or whenever for any other reason the Faculty judge it inexpedient that a student continue his college course, such student may be required to withdraw from college upon receiving due notice from the Faculty.

VII. RULES GOVERNING EXCUSES

All claims for excuses must be made at the Excuse Office on or before Saturday of the week following that in which the absence occurred. It is urged that excuses be obtained as early as possible after absences.

The power to grant excuses for absences lies wholly in the Excuse Officer.

Excuses for tardiness are to be made to the instructor in charge at the hour in which the tardiness occurred; otherwise it may be counted an unexcused absence.

When a student shall have taken four unexcused cuts in one course he shall be placed on probation. If at the end of the semester the student has a total of more than fifteen (15) unexcused cuts for all courses, the Excuse Officer shall report him to the Registrar as lacking 1-10 of a course for each cut above fifteen (15).

Such deficiencies may be made up either by taking fewer cuts a succeeding semester, in which case the student will receive 1-10 of a course credit for each absence less than fifteen (15) until the required number of hours are restored; or if not made up by improved attendance, an extra course shall be required for each ten points deficiency or fraction thereof.

Should a student make no attempt to secure an excuse, he may be summoned by the Excuse Officer to give an account for his
absence. If a student fails to appear in answer to a summons from the Excuse Officer, he will be on probation.

A student on probation shall not represent the college in any public way such as being on athletic squads, musical, dramatic, or debating clubs, boards of publication, or acting as cheer leader.

All consecutive absences just preceding or following a holiday or vacation shall count as two, unless previously granted by the Excuse Officer.

Absences shall count as zeros in all courses until the work is made up.

No excuses will be granted for an illness of one day. Where longer illnesses are involved, no excuses will be given for the first day of the illness except on a doctor’s certificate.

The Excuse Officer may be found in Coburn Hall. Office hours will be scheduled.

The Women’s Division

Registration. All women are required to register on the first Thursday afternoon of the college year at the registrar’s office, Chemical Hall.

All women not living at home or with near relatives are required to live in the College residence halls. Exceptions to this rule are made only in the case of a few upperclass students who entered college before the fall of 1921 with the understanding that they might work their board in approved places.

An applicant is not entitled to an assignment of a room until she has paid a fee of $10, which will be credited upon her bill for subsequent charges. A similar fee is required of all students in college on renewal of application for each succeeding year. If the application should be withdrawn before August first, the money will be refunded.

Each student must provide her own rugs, bed linen, blankets, couch cover, window draperies, towels, four napkins and a napkin ring. These napkins will be turned over to the house manager and laundered with the general table linen. A fee of seventy-five cents will appear on each semester bill to cover expense of this laundering. Napkins should be plainly marked. The college provides couch beds and all necessary furniture. All rooms are supplied with electric lights.

The college houses are not open to students during vacation.
VIII. ELIGIBILITY

No student shall represent the college in any public way who has more than two deficiencies, of which only one can be from the preceding semester.

No student shall represent the college in any public way if he is doing unsatisfactory work in any course he is pursuing or is taking less than the minimum number of hours required.

A student degraded to a lower class shall not, for the period of one year, represent the college in any public way, unless sooner reinstated.

IX. PUBLIC WORSHIP

Men's Division

Chapel exercises are held in the College Chapel every day except Sunday at 9.50 A.M., with the following exceptions: On the opening day of the year, the Chapel hour is 9.00 A.M.; and during examination week, Chapel occurs at 8.30 A.M.

Students are expected to attend the daily Chapel exercises, and to attend public worship at least once on each Sunday of the college year.

Women's Division

Daily devotional exercises are held in the College Chapel at the close of the morning recitation (12.05 P.M.) with the exception of Thursday, the opening day of the year, when the Chapel service occurs at two o'clock in the afternoon. All students of the Women's Division are expected to be present at the daily Chapel exercises, and to attend public worship at least once on each Sunday of the college year. Excuses for absence from chapel must be presented to the dean. The student government proctors collect at the beginning of each month a record of every student's church attendance for the preceding month.
EXPENSES AND FEES

Men's Division

The regular charges per semester are: for tuition $45, and for term expenses, including library, gymnasium, and other incidentals, $15, making a total of $60 a semester. Room rent for students living in the Chapter Houses on the Campus is $30 a semester and for students living in Hedman Hall and in Roberts Hall from $30 to $35 a semester. Each student pays from $3 to $6 a year for electric lights.

The students' subscriptions to the Athletic Association and to the Library of the Department of History, and the cost of outlines and laboratory materials used in the courses in science, are, by request, placed on the term bills. The bills are presented at the beginning of the semester, and payment is required on or before the fourth Thursday of each semester. Unless payment is made at this time, students will be excluded from college classes until the obligation is met.

Table board may be obtained in the city from $5.00 to $7.00 per week.

Women's Division

The tuition for all students is $45 a semester, in addition to $15 a semester for incidental expenses, making a total of $120 a year. For students living in Foss Hall, the total charge for tuition, board, and furnished room is $395 a year, for those in Mary Low Hall, and in Dutton House $385 a year. There is a charge of $6.00 a year for electric lights for all those living in women's dormitories. One-half of the annual charges for tuition, board, and room rent is due at the beginning of each semester and must be paid on or before the fourth Thursday of the semester, and if not, the student will be excluded from college classes until such payment is made. If a student be compelled by illness or other necessity, to leave college before the end of a semester, the charge for that semester will be $12 a week for the time spent in college. No deduction will be made for absence except in cases of prolonged illness.
Laboratory Fees

Laboratory fees are charged in the courses in science as follows: *Physics*: Courses 1, 2, 3, and 4, $3 per semester; Courses 5, 6, 9, 10, 11, and 12, $5 per semester; *Chemistry*: Courses 1, 2, 3, 4, $5 per semester; Courses 5, 6, 7, 8, $6 per semester; 9, 10, $7.50 per semester; Courses 15, 16, 17, 18, $6 per semester; *Geology*: Courses 1, 2, 5, 6, $3 per semester; Courses 3, 4, $2 per semester; *Geography*: Courses 1, 2, $3 per semester; *Biology*: Courses 1 and 2, and *Zoology* 1, $3 per semester; *Zoology* 2, $2 per semester; *Biology* 7 and 8, $2 per semester; and *Zoology* 3 and 4, $4 per semester.

Self-Help

The College pays for student service on the Campus and at Foss Hall more than five thousand dollars a year, giving employment to more than fifty young men and women. Colby is situated in the heart of a thriving city of twelve thousand inhabitants, and employment outside the College is abundant. The College is aided by the cooperation of a great number of interested friends throughout the city.

Prospective students who desire specific information about scholarship aid and opportunities for self-help are requested to communicate with the President of the College.
SCHOLARSHIPS

The College has at its disposal seventy-six endowed scholarships, amounting to $110,500. The income of these scholarships, varying from $30 to $50 per annum, is devoted to the assistance of worthy students needing aid, under the following conditions, established by the Board of Trustees:

1. The student must satisfy the Committee on Scholarships that he is in need of assistance.
2. The student must be in constant attendance upon college work, unless prevented by reasons satisfactory to the Faculty.
3. The student must obey the College laws, and aid will be withdrawn for any and all semesters when he is under discipline.
4. The student must hold himself ready to render such light service to the College as may not interfere with his duties. To those who reside in the city and do not occupy a room in the college buildings, the scholarship aid is limited to twenty-five dollars for each year.

LIST OF SCHOLARSHIPS

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*"To be held in trust and for ever kept intact. the income of which is to be distributed by the Faculty, subject to the supervision and control of the Trustees, to such students as require assistance. but to no student shall be given more than one hundred dollars a year."*
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**Incomplete Scholarships**

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<td>Thomaston</td>
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<td>Livermore Falls</td>
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**Total**  
$122,500.00
PRIZES

Commencement Prizes of Thirty Dollars

A prize of fifteen dollars is awarded on Commencement Day to the Commencement Speaker, Men's Division, for excellence in English Composition.

A prize of fifteen dollars is awarded on Commencement Day to the Commencement Speaker, Women's Division, for excellence in English Composition.

Junior Exhibition Prizes of Fifty Dollars

A first prize of fifteen dollars and a second prize of ten dollars, are awarded to the two speakers in the Junior Exhibition, Men's Division, for excellence in declamation and composition.

A first prize of fifteen dollars and a second prize of ten dollars, are awarded to the two speakers in the Junior Exhibition, Women's Division, for excellence in declamation and composition.

Sophomore Declamation Prizes of Thirty Dollars

A first prize of ten dollars and a second prize of five dollars are awarded to the two speakers in the Sophomore Declamation, Men's Division, for excellence in declamation.

A first prize of ten dollars and a second prize of five dollars are awarded to the two speakers in the Sophomore Declamation, Women's Division, for excellence in declamation.

Hamlin Prizes of Thirty Dollars

A first prize of ten dollars and a second prize of five dollars are awarded to the two speakers in the Hamlin Prize Speaking Contest, Men's Division, for excellence in public reading.

A first prize of ten dollars and a second prize of five dollars are awarded to the two speakers in the Hamlin Prize Speaking Contest, Women's Division, for excellence in public reading.

Foster Memorial Greek Prizes of Forty Dollars

(In memory of the late Professor John B. Foster.)

A prize of twenty dollars to a student of the Men's Division, for marked excellence in the work of interpreting Greek Authors; to be awarded at the end of the college course upon a basis of not less than four semester-courses.
A prize of twenty dollars to a student of the Women’s Division, for marked excellence in the work of interpreting Greek Authors; to be awarded at the end of the college course upon a basis of not less than four semester-courses.

**German Prizes of Thirty Dollars**

A first prize of ten dollars and a second prize of five dollars to members of the Men’s Division for excellence in the courses in German.

A first prize of ten dollars and a second prize of five dollars to members of the Women’s Division for excellence in the courses in German.

**Freshman Scholarship Prizes of One Hundred and Fifty Dollars**

A first prize of fifty dollars and a second prize of twenty-five dollars are awarded to the two members of the Freshman Class, Men’s Division, who have maintained the highest average in their courses during the Freshman Year.

A first prize of fifty dollars and a second prize of twenty-five dollars are awarded to the two members of the Freshman Class, Women’s Division, who have maintained the highest average in their courses during the Freshman Year.

**Class of 1888 Prizes of One Hundred Dollars**

A first prize of thirty-five dollars for the best thesis written by a Senior, Men’s Division, on subject to be announced.

A first prize of thirty-five dollars for the best thesis written by a Senior, Women’s Division, on subject to be announced.

A first prize of thirty dollars for the best thesis written by a Junior in the Men’s Division, on subject to be announced.

**The Albion Woodbury Small Prizes of One Hundred Dollars**

Prizes amounting to *One Hundred Dollars*, derived from a fund given by Lina Small Harris of Chicago, in the name of her father, Albion Woodbury Small, of the class of ’76, former President of Colby and now Professor of Sociology in the University of Chicago, are available to students pursuing work in the field of economics and sociology.

A first prize of fifty dollars will be given to the student in the Men’s Division who presents the best essay on some subject to be announced by the Department of Economics.
A first prize of fifty dollars will be given to the student in the Women’s Division who presents the best essay on some subject to be announced by the Department of Economics.

The Hallowell Public Speaking Prizes of One Hundred Dollars

Special prizes aggregating One Hundred Dollars, the gift of Florentius Merrill Hallowell, of the class of 1877, of Kearney, Nebraska, are made available to the College for the encouragement of Public Speaking.

The prizes are open for competition to all students electing Public Speaking 6.

The following rules shall govern the awarding of these prizes:
1. A speaking contest shall be held, prior to the public exhibition, in which all students electing Public Speaking 6 are required to participate. Of those contesting, twelve shall be chosen to take part in the final exhibition.
2. The addresses shall be original.
3. The addresses shall be of not over six minutes in length.
4. The judges shall award the several prizes on the basis of 50 points; of which Interpretation shall count 25, Appearance, 15, and Pronunciation, 10.
5. The awards shall be as follows: First Prize, $50; second prize, $25; third prize, $15, fourth prize, $10.

The Murray Debating Prizes of One Hundred Dollars

The sum of One Hundred Dollars has been given to the College to stimulate an interest in Debating. The donor of this gift is George Edwin Murray, of the class of 1879, of Lawrence, Massachusetts.

The prizes are open for competition to all students electing Public Speaking 5.

The following rules shall govern the awarding of these prizes:
1. Students shall be required to prepare a written argument on a question to be submitted by the instructor in charge and to deliver an excerpt from this argument before a board of judges. The written argument shall count 50 points and the oral work, 50 points. Of those competing six shall be selected for the final debate.
2. A public debate shall be held as soon after the end of the First Semester as possible at which time the six debaters shall
be assigned to teams representing the affirmative and negative sides of the question for discussion.

3. Three judges, to be selected by the President of the College, shall pass upon the merits of the debate.

4. The judges shall award the prizes on the basis of 50 points; of which Value of Argument shall count 25, Appearance, 15, Pronunciation, 10.

5. The awards shall be as follows: to the winning team, $75 shall be given, the same to be divided equally among the three speakers; to the losing team, $25 shall be given, the same to be divided equally among the three speakers.

The Lyford Public Speaking Prizes of One Hundred Dollars

Special prizes aggregating One Hundred Dollars, the gift of Will Hartwell Lyford, of the class of 1879, of Chicago, Illinois, are made available to the College and are open to young men attending preparatory schools in Maine, New Hampshire, and Massachusetts. The chief object of the prizes is to encourage public speaking, and the awards will be made for general excellence in declamation.

The following rules shall govern the awarding of these prizes:

1. The students offering themselves in competition for these prizes must file application, furnished by the Public Speaking Department, at least one month before the date set for the contest.

2. Selections rendered shall be of not over six minutes in length.

3. Contestants are required to speak excerpts from orations or addresses delivered by well known public speakers in comparatively recent years.

4. The judges shall award the several prizes on the basis of 50 points; of which Interpretation shall count 25, Appearance, 15, and Pronunciation, 10.

5. Three judges, to be selected by the President of Colby College, shall pass upon the merits of the speaking.

6. The awards shall be as follows: First prize, $50; second prize, $25; third prize, $15; fourth prize, $10.

The Goodwin Public Speaking Prizes of One Hundred Dollars

Special prizes aggregating One Hundred Dollars, given in memory of Hon. Forrest Goodwin, class of 1887, of Skowhegan
Prizes

Maine, are made available to the college and are open to all students in the Men’s Division.

The following rules shall govern the awarding of these prizes:

1. A contest preliminary to the public exhibition shall be held in which contestants shall present to a board of judges an original written address of not over ten minutes in length, and shall memorize and deliver an excerpt from this address of not over three minutes in length. The written address shall be judged on the basis of 50 points and the spoken excerpt, 50 points. The eight students ranking highest in the preliminary contest shall be appointed to the final contest.

2. A final contest shall be held at which time the eight successful contestants shall deliver the addresses in full. A board of three judges shall pass upon the merits of the speaking, and shall award their decision upon the basis of 50 points, of which Interpretation shall count 25; Appearance, 15; Pronunciation, 10.

3. The awards shall be as follows: First Prize, $50; Second Prize, $25; Third Prize, $15; Fourth Prize, $10.

4. A general subject, phases of which the contestants will be expected to treat, shall be announced each year. The general subject for 1921-1922 is Orators and Oratory.

The Coburn Prizes of Fifty Dollars

Special prizes aggregating Fifty Dollars, the gift of Louise Helen Coburn, of the class of 1877, are made available to the College for the encouragement of public speaking among the women of Colby.

The following rules shall govern the awarding of these prizes:

1. The contest shall be open to all members of the Women’s Division.

2. A contest preliminary to the public exhibition shall be held in which contestants shall present to a board of judges an original written address of not over ten minutes in length, and shall memorize and deliver an excerpt from this address of not over three minutes in length. The written address shall be judged on the basis of 50 points, and the spoken excerpt, 50 points. The eight students ranking highest in the preliminary contest shall be appointed to the final contest.

3. A final contest shall be held at which the eight successful contestants shall deliver the addresses in full. A board of three
judges shall pass upon the merits of the speaking, and shall award their decision on the basis of 50 points, of which Interpretation shall count 25, Appearance, 15, and Pronunciation, 10.

4. The awards shall be as follows: First Prize, $25; second prize, $15; third prize, $10.
DEGREES

The degrees of Bachelor of Arts and Bachelor of Science are conferred by the Board of Trustees, on the recommendation of the Faculty, upon those who have completed the courses respectively required.

1. Bachelor of Arts and Bachelor of Science With Distinction

The Degree of Bachelor of Arts and Bachelor of Science with Distinction is awarded in three grades: with Distinction (cum laude), with High Distinction (magna cum laude), with Highest Distinction (summa cum laude).

CUM LAUDE. Students who attain a rank between eighty-eight and ninety-two percent throughout their college course will be recommended for a degree of cum laude.

MAGNA CUM LAUDE. Students who attain a rank between ninety-two and ninety-five percent throughout their college course will be recommended for a degree of magna cum laude.

SUMMA CUM LAUDE. Students who attain a rank of ninety-five percent or more throughout their college course will be recommended for the degree of summa cum laude.

MARKED DISTINCTION. If at any time a student who has not obtained one of the cum laude grades should attain a rank of ninety-five percent in any department, such student may upon recommendation of the head of that department, and at the discretion of the Faculty, be mentioned on the Commencement Program as having attained Marked Distinction in that particular department.

2. Master of Arts

The degree of Master of Arts will be conferred upon two classes of candidates as follows:

1. Upon graduates of this college who have spent one year in residence at this College pursuing two approved courses of study in different departments; one, a Major Course, must be equivalent to at least two-thirds of the work of a college year, and the other, to be known as a Minor Course, must be equivalent to the work of one-third of a college year. In addition, the candidate must prepare a satisfactory thesis, which is related to the work of his Major Course.
2. Upon those non-resident candidates, who have been graduates of this College for a period of not less than two years, and who have fulfilled all the conditions with regard to courses of study, examinations, and thesis specified in the first paragraph.

Each candidate for this degree must register his name, address, and courses of study with the Secretary of the Faculty not later than the first of October in the year in which he begins his study. His selection of courses must have the approval of the professors of those departments to which they are related, and of the Faculty Committee on Graduate Students. His thesis must be submitted not later than the fifteenth of May of the year in which he desires to be examined for the degree, and must meet with the approval of the professor in charge of his Major Course and of the Faculty Committee on Graduate Students. A copy of the thesis, printed or typewritten, on paper of commercial size, must be deposited in the College Library by the candidate.

All candidates for this degree will be charged a tuition fee of $100 a year. An additional charge will also be made for the use of laboratory supplies.

In consequence of action taken by the Board of Trustees in 1893, the class of 1896 is the last upon whose members the degree of M.A. may be conferred "in course".

THE PHI BETA KAPPA SOCIETY

A charter for the Beta Chapter of Maine was granted to Colby College in 1895. The object of the Phi Beta Kappa Society is the promotion of scholarship and friendship among students and graduates of American Colleges. The conditions of membership are:

"Within the limits prescribed by the Constitution, viz: that no more than one-fourth of the entire number of graduates for any year shall be elected, only those students shall be eligible whose average rank for the entire course upon the record of the College at the end of the Senior year is eighty-eight per cent. Further, each Division of Colby College (Men's and Women's) shall be entitled, within the charter limit, to the number of members proportional to the number of graduates in
each Division of the College. In other words, not more than one-fourth of the graduates of each Division are eligible to active membership in the Chapter, and of this number, only those who have attained an average rank of eighty-eight per cent. for the entire course.

“In the case of students who have been admitted from other colleges to advanced standing in Colby College, no one shall be eligible to membership in the Chapter who has not spent, at least, the last two years of his course at Colby College; and in such cases, the rank attained at other colleges shall not be taken into account.” (By-laws, Art. III, Sec. 1.)

Professor Charles P. Chipman is the Secretary and Treasurer of the chapter.
STUDENT ORGANIZATIONS

The Colby Christian Association

The Association is organized on the same plan as those in most other colleges of the country, and is affiliated with them. Its active members are the Christian students of the College, and the Association is designed to help such students to Christian growth and manhood, and to furnish them with facilities for helping others. All the men of the college who are interested in working for clean living can join the Association as associate members. To meet the regular expenses, a membership fee of one dollar is charged all members.

The Association holds a religious meeting on the second and fourth Tuesday of each month at 7:30 P.M. This meeting is led by the students, by some member of the Faculty, or by some outside speaker.

Interest in Missions is stimulated by Mission study and by occasional addresses by missionaries and secretaries, affording opportunities for conference to those who are considering Missions as their life-work. The Student Volunteer Band is composed of those who have really decided to become missionaries.

The Association also does evangelistic work in the nearby towns. Many opportunities are open to Christian students to lead services in schoolhouses and missions in the outlying districts.

The Association has charge of the publication of the Colby Handbook which is given to all students of both Divisions. It is a very useful little book, full of information about the College.

Delegates are sent every year to the Maine College and Preparatory School Conference, to the Eastern Presidents’ Conference, and to the Intercollegiate Conference at Northfield, Massachusetts.

Officers for 1921-1922: President, Charles H. Gale, '22; Vice-President, Clifford Peaslee, '22; Secretary, Walter T. Moreland, '23; Treasurer, Chauncey L. Brown, '23; Faculty Advisers, Professors White, Brown, and Edwards.

The Young Women's Christian Association

Almost all the students of the Women’s Division are members of the Association, which, like most of the college associa-
Student Organizations

Student Organizations, is affiliated with the National Board. Members of evangelical churches are eligible to active, others to associate membership.

The Association maintains regular meetings for prayer and conference, provides classes for Bible study and for Mission study, which are well attended and which help to maintain the religious life of the college.

A membership fee of one dollar is charged to provide money to meet the actual expenses of the association.

Officers for 1921-1922: President, Hazel G. Dyer, '22; Vice-President, Louisa Katherine Tilley, '23; Secretary, Louise L. Steele, '23; Treasurer, Daphne M. Fish, '22.

The Oracle Board


The Colby Echo

The Colby Echo is a weekly publication devoted to the interests of the student body of the College.


The Colbiana

The Colbiana is a quarterly magazine issued by the students of the Women's Division.

Officers for 1921-1922: H. Naomi Maher, '22, Editor-in-Chief; Louise Steele, '23, First Assistant Editor; Ethel Alley, '23, Second Assistant Editor; Associate Editors: Vina Parent, '22, Thelma H. Powers, '23, Esther M. Holt, '24, Literary Editors; Marion D. Brown, '24, Art Editor; Marion L. Drisko, '23, Helen F. Libby, '24, News Editors; Lorena Scott, '22, Y. W. C. A. Editor; Doris E. Wyman, '23, Sports Editor. Annie G.
Colby College

Burgess, '22, Business Manager; Edyth Porter, '23, First Assistant Business Manager; Carolyn Hodgdon, '24, Second Assistant Business Manager.

Colby Debating Society

Officers for 1921-1922: President, Basil B. Ames, '22; Vice-President, Ashley L. Bickmore, '22; Corresponding Secretary, John L. Dunstan, '23; Recording Secretary, Clifford Peaslee, '22; Treasurer, Stanley G. Estes, '23; Executive Committee, Prof. Herbert C. Libby, Prof. Curtis H. Morrow, Prof. John C. S. Andrew, George B. Wolstenholme, '22, and Samuel Pinonsky, '23.

Colby College Musical Clubs

Officers for 1921-1922: President, Evan J. Shearman, '22; Manager, George B. Wolstenholme, '22; Secretary, George F. Davis, '24; Leader of Glee Club, Harold L. Baldwin, '23; Leader of Mandolin Club, John P. Tilton, '23; Leader of Orchestra, George F. Davis, '24.

Athletic Association

Officers for 1921-1922: President, George F. Terry, Jr., '22; Secretary, Arthur L. Berry, '23; Treasurer, Prof. T. B. Ashcraft; Senior Councilman, Leonard W. Mayo, '22; Junior Councilman, Arthur L. Berry, '23; Faculty Representatives, Professors Parminter and Ashcraft; Alumni Representatives, A. F. Drummond, '88, and Frank W. Alden, '98; Baseball Manager, G. F. Terry, Jr., '22; Football Manager, John L. Dunston, '23; Track Manager, Floyd T. McIntire, '23; Tennis Manager, J. B. Sprague, '23; Cheer Leader, C. H. Gale, '22.

Literary Society—Women's Division

Officers for 1921-1922: President, Edna Alice Briggs, '22; Vice President, Melva Mercedes Mann, '23; Treasurer, Vina Beatrice Parent, '22; Sergeant-at-arms, Helen Frances Libby, '24.

Student Council

Colby Press Club

Membership limited to the class in Journalism, editors of the College publications, and to correspondents for newspapers. Meets every Tuesday afternoon.

Officers: President, Frederick G. Fassett, Jr., '23; Secretary, Clyde E. Russell, '22; Faculty Adviser, Prof H. C. Libby.

Pi Kappa Delta

(Honorary Forensic Society)

Officers for 1921-1922: President, George B. Wolstenholme, '22; Secretary, Basil B. Ames, '23; Treasurer, Clyde E. Russell, '22.

Student Government Association

Officers for 1921-1922: President, Clara H. Wightman, '22; Vice President, Thelma A. Powers, '23; Secretary, Helen E. Davis, '25; Treasurer, Beatrice Persis Baker, '22.

Colby Health League

Officers for 1921-1922: President, Bertha Emily Gilliatt; Vice-President, Doris Elizabeth Wyman, '23; Secretary-Treasurer, Ruby Frances Dyer, '22.
GRADUATE ORGANIZATIONS

The General Alumni Association

Officers for 1921-1922: President, T. Raymond Pierce, '98; Vice-President, Paul F. Fraser, '15; Secretary, Prince A. Drummond, '15; Treasurer, Charles W. Vigue, '98; Necrologist, Charles P. Chipman, '06; Executive Committee: Herbert E. Wadsworth, '92; Robert L. Ervin, '11; Albert F. Drummond, '88; Charles E. Gurney, '98; Burr F. Jones, '07; Committee to Nominate Alumni Trustees: Woodman Bradbury, '87; Frank W. Padelford, '94; J. Colby Bassett, '95; J. E. Burke, '90; Alumni Representatives on Athletic Council: Albert F. Drummond, '88; Frank W. Alden, '98; Alumni Council: Term expiring in 1921: John L. Dyer, '98; Herbert C. Libby, '02; Leon C. Guptill, '09; Newton L. Nourse, '19; Term expiring in 1922: Archer Jordan, '95; Rex W. Dodge, '06; Oliver L. Hall, '93; Charles M. Bailey, '20; Term expiring in 1923: William L. Bonney, '92; T. Raymond Pierce, '98; Cecil M. Daggett, '03; Thomas A. Grace, '21.

Atlantic States Colby Alumni Association


Aroostook Colby Alumnae Association

Officers for 1921-1922: President, Annie Richardson Barnes, '94; Vice-President, Ethel G. Chamberlain, '15; Secretary, Dorothy I. Mitchell, '21; Treasurer, Rose Carver Tilley, '11; Executive Committee, Ethel G. Chamberlain, '15, Clara Collins Piper, '14, Avis Thompson Lamoreau, '13.

Boston Colby Alumni Association

Officers for 1921-1922: President, H. E. Hamilton, '96; Vice-Presidents, H. W. Page, '80, R. L. Emery, '06; Treasurer, Angier L. Goodwin, '02; Secretary, F. G. Getchell, '98; Assistant Secretary, A. B. Warren, '99; Executive Committee: Term expires in 1922: Albert Robinson, '93, Percy F. Williams, '97, Charles B. Fuller, '96; Term expires in 1923: John B. Pugsley, '05, Nathan
Graduate Organizations


The New York Colby Alumni Association

Officers for 1921-1922: President, Franklin W. Johnson, '91; Vice President, Rhena Clark Marsh, '01; Secretary-Treasurer, George W. Perry, '14.

Western Maine Colby Alumni Association

Officers for 1921-1922: President, William L. Bonney, '92; Secretary, James R. Nickels, '08; Treasurer, Spaulding Bisbee, '13.

Aroostook Colby Club

Officers for 1921-1922: President, George A. Gorham, '91, Houlton; First Vice-President, Frank W. Tarbell, '04, Smyrna Mills; Second Vice-President, Victor A. Gilpatrick, '13, Davidson; Secretary, Albert K. Stetson, '07, Houlton; Treasurer, Walter F. Titcomb, '97, Houlton.

Connecticut Valley Colby Club

Officers for 1921-1922: President, Charles T. Seaverns, '01, Hartford, Conn.; Secretary, Royden K. Greeley, '13, Middletown, Conn.; Executive Committee, President and Secretary, ex-officio, and Harry E. Hamilton, '96, Greenfield, Mass.

Chicago Colby Club

Officers for 1921-1922: President, Shailer Mathews, '84, Chicago, Ill.; Secretary, Everett L. Wyman, '14, Chicago, Ill.

The Colby Alumnae Association

Officers for 1921-1922: President, Lois Hoxie Smith, '03; First Vice-President, Helen Hanscom Hill, '97; Second Vice-President, Clara Martin Southworth, '03; Secretary, Harriet M. Parmenter, '89; Treasurer, Alice M. Purinton, '99; Executive Committee: Alice A. Clarkin, '16, Bessie N. Tobey, '16, Meroe F. Morse, '13; Auditor, Bertha H. Kennison, '07; Members of Council, Mabel Dunn Libby, '03, Nellie Lovering Rockwood, '02.
Waterville Colby Alumnae Association

Officers for 1921-1922: President, Harriet Vigue Bessey, '93; Vice-President, Nettie M. Runnals, '08; Secretary-Treasurer, Meroe F. Morse, '13.

Boston Colby Alumnae Association

Officers for 1921-1922: President, Helen Hanscom Hill, '97; Vice-President, Ella MacBurnie Stacey, '09; Treasurer, Alice Pierce, '03; Secretary, Ruby Carver Emerson, '04.
COLBY FITTING SCHOOLS

The College has four affiliated Academies in Maine which are under the general direction of its Board of Trustees. The courses of study in these Academies have the approval of the Faculty of the College and frequent visits to these schools are made by committees of examination from the Faculty of the College.

COBURN CLASSICAL INSTITUTE

WATERVILLE, KENNEBEC COUNTY

Coburn Classical Institute had its origin in the need of a school to prepare students for Waterville College, now Colby College. It began its work in 1820 and has had a splendid record.

The following courses are offered:

1. The Classical Course preparing students to enter college as candidates for the degree of A.B.

2. The English Scientific Course preparing students to enter college for the degree of B.S. This course also gives a fine general training for those who do not go to college.

3. The Household Arts Course.

4. The Preparatory Course for students who need another year before taking up the work of one of the regular courses.

5. The Music Course providing unusual opportunities for study of piano, organ, and voice.

Faculty

DREW THOMPSON HARTHORN, A.M., Principal.
EDITH PRIEST WHITTEN, A.B., French.
CLARA PRESCOTT MORGILL, A.M., English.
FRED LEXEY DAYE, A.B., Science.
FRANCES H. BUTLER, Household Arts.
GUY RAYMOND WHITTEN, Mathematics.
PAUL FREDERICK FRASER, B.S., Civics, Physical Director.
HEBRON ACADEMY

Hebron, Oxford County.

Chartered by the Legislature of Massachusetts in 1804, this Academy has a long and honorable record. It offers four courses of study:

1. A Classical Course for college matriculation for the B.A. degree.
2. A Scientific Course for college matriculation for the B.S. degree.
3. A general course, designed for students who are not preparing for college.
4. An elementary course for students who have completed at least six grades of elementary schooling.

Faculty

JAMES DAVID HOWLETT, A.B., Head Master, Supervision.
WILLIAM EDWARD SARGENT, A.M., Litt.D., Principal 1885-1921, Principal Emeritus.
ELLEN HERSEY PACKARD, A.B., Dean of Girls, Bible and Assistant in English.
ARTHUR LEE FIELD, A.B., Mathematics.
CHARLES CLARKE DWYER, A.B., Director of Athletics and Assistant in Science.
RAYMOND RUSSELL THOMPSON, B.S., Science.
ELIZABETH MARION WHITTIER, A.B., Latin and French.
Fitting Schools

EDITH CAROLINE ROBINSON, A.B., Assistant in Mathematics.
CLOYD ELDEN SMALL, A.B., English.
JOSEPHINE LOUISE WIGHT, Preparatory and Household Studies.
MARJORIE ERWIN, Music.
PERCY EDWARD GRAVES, A.B., History.
DONALD ARTHUR SHAW, A.B., Assistant in English and Argumentation.
IRMA HASKELL, A.B., Physical Culture for Girls, Elocution.

RICKER CLASSICAL INSTITUTE

HOULTON, AROOSTOOK COUNTY.

Ricker Classical Institute, incorporated as Houlton Academy, completes its seventy-fourth year in June, 1922. It is the best known educational institution in northern Maine. Four courses of study are offered:

1. A Classical Course preparing students to enter college as candidates for the degree of A.B.
2. A Latin-Scientific Course preparing students to enter college as candidates for the degree of B.S.
3. An English Course which gives a good general training for those who do not anticipate a college course.
4. A Training Course fitting for teaching and entitling to State Certificate.

Faculty

CLYDE H. WITHAM, Mathematics, Physical Director.
MARION WILLIAMS, A.B., Latin, Spanish. (Wheaton).
MRS. GLADYS HUSSEY, Training. (Castine Normal).
HIGGINS CLASSICAL INSTITUTE

Charleston, Penobscot County.

This institute, incorporated under the name of Charleston Academy in 1837, is largely indebted for its present prosperous condition to the fostering care of the late Rev. J. H. Higgins.

Three courses are now offered:
1. A College Preparatory Course of four years.
2. An English Course of four years, preparing students for entering College as candidates for the degree of B.S.
3. A Normal Course of four years.

Faculty

WILLIAM A. TRACY, A.B., Principal. (Colby).
HUGH A. SMITH, A.B., Sub-Master. (Colby).
ALICE H. CLARK, A.B., Preceptress. (Colby).
FLORENCE M. PREBLE, A.B., Latin. (Colby).
EDNA A. MERRILL, Normal Department. (Farmington Normal).
HELEN NASON, Music.