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Bridgewater College

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Bridgewater College

BULLETIN



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1921

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Bridgewater, Virginia

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1921

BRIDGEWATER COLLEGE
BRIDGEWATER, VIRGINIA

Co-Educational



ANNOUNCEMENTS, 1921-22
CATALOG, 1920-21

Forty-Second Year Begins
September 19, 1921

46303

Calendar

1921

September 19—Monday, 2 p. m.....	Registration begins
September 20—Tuesday, 10:30 a. m.....	Convocation exercises
September 20—Tuesday, 8 p. m.....	Faculty reception
September 21—Wednesday, 8 a. m.....	First semester begins
November 24-26—Thursday-Saturday.....	Thanksgiving holiday
December 22—Thursday, 8 a. m.....	Christmas recess begins

1922

January 3—Tuesday, 8 a. m.....	Christmas recess ends
January 30-February 3—Monday-Friday.....	First semester examinations
February 4-6—Saturday-Monday.....	End semester recess
February 7—Tuesday, 8 a. m.....	Second semester begins
April 3—Monday, 10:30 a. m.....	Founders Day exercises
April 15-17—Saturday-Monday.....	Easter holiday
May 29-June 2—Monday-Friday.....	Second semester examinations
June 4—Sunday, 8 p. m.....	Baccalaureate Sermon
June 5—Monday.....	Class Day
June 6—Tuesday.....	Alumni Day
June 7—Wednesday, 10 a. m.....	Commencement

46303

General Educational Board

(Church of the Brethren)

D. W. KURTZ, D. D., <i>Chairman</i>	McPherson, Kansas
D. M. GARVER, <i>Vice-Chairman</i>	Trotwood, Ohio
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Board of Trustees

Time Expires 1927

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S. I. BOWMAN.....Harrisonburg, Virginia
JOHN C. MYERS.....Broadway, Va.

Time Expires 1926

....., West Virginia
SIDNEY L. BOWMAN.....Bridgewater, Virginia
WALTER R. HOOKER.....Torry Island, Florida

Time Expires 1925

JOHN H. HOOVER.....Timberville, Virginia
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Time Expires 1924

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I. N. H. BEAHM.....Nokesville, Virginia

Time Expires 1923

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GEORGE S. ARNOLD.....Burlington, West Virginia
JOHN D. MILLER.....Bridgewater, Virginia

Time Expires 1922

PETER S. THOMAS.....Harrisonburg, Virginia
DR. C. P. HARSHBARGER.....Port Republic, Virginia
....., West Virginia
PAUL H. BOWMAN, *President of the College, ex-officio*

OFFICERS OF THE BOARD

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JOHN C. MYERS.....*First Vice-President*
JOHN H. HOOVER.....*Second Vice-President*
DR. JOHN S. FLORY.....*Secretary*
CHARLES C. WRIGHT.....*Treasurer*

MEETINGS OF THE BOARD

10 A. M. Friday, October 7, 1921
10 A. M. Friday, February 17, 1922
10 A. M. Friday, June 16, 1922

Legal Title: "The Trustees of Bridgewater College."

4 April 1963

Officers of Administration

PAUL H. BOWMAN, B. A., M. A., D. D.
President

JOHN S. FLORY, B. A., M. A., PH. D.
President Emeritus

WILLIAM T. SANGER, B. A., M. A., PH. D.
Dean and Chairman of the Faculty

CHARLES C. WRIGHT, B. A.
Treasurer

MATTIE V. GLICK, B. A.
Secretary of the Faculty

JOHN T. GLICK, B. A.
Librarian

MRS. A. B. MILLER, B. S. L.
Social Director

MRS. ELIZABETH G. McCANN, B. E.
Matron

H. LINWOOD YAGER, B. A.
Dean of Men

A. B. MILLER, B. A.
Pastor

MARY MCKEE SEEBERT, B. S.
Dietitian and Director of the Dining Hall

EDWARD B. VAN PELT, B. S.
Superintendent of the College Farm

JOHN D. MILLER, M. A., M. D.
College Physician

BERTHA A. KIRACOFÉ
College Nurse

EDGAR S. KIRACOFÉ, B. A.
Director of the Gymnasium

MATTIE V. GLICK, B. A.
Secretary to the Treasurer and President

ZULA M. GOCHENOUR
Secretary to the Dean

Faculty

(Arranged in order of first appointment)

PAUL H. BOWMAN, M. A., D. D., PRESIDENT

Professor of Philosophy

B. A., Bridgewater College, 1910; B. D., Crozer Theological Seminary, 1913; M. A., University of Pennsylvania, 1913; Pastor Bethany Church of the Brethren, Philadelphia, 1913-1915; President, Blue Ridge College, New Windsor, Md., 1915-1917; Professor of Biblical Literature and Sociology, Blue Ridge College, 1917-18; Professor, Biblical Literature and Theology, Bridgewater College, 1918-19; President, Professor of Philosophy, Bridgewater College, 1919—.

JOHN S. FLORY, M. A., PH. D.

Professor of English

B. Lit., Mount Morris College, 1894; Instructor in English Language and Literature, Bridgewater College, 1894-1902; B. A., Bridgewater College, 1902; M. A., *ibid.*, 1908; Alumni Scholar, University of Virginia, 1902-03; University Scholar and Assistant in English Literature, *ibid.*, 1903-05; Ph. D., *ibid.*, 1907; Professor of English and German and Vice-President, Bridgewater College, 1905-10; Acting-President, *ibid.*, 1906-07; President, *ibid.*, 1910-19; President Emeritus, *ibid.*, since 1919; Lecturer in State Institutes at Winchester, 1906, 1907; at Fredericksburg, 1908, 1909; at Harrisonburg, 1911-1916; Author.

GRACE LEE BERLIN, MUS. B.

Instructor in Piano

Student, Bridgewater College, School of Music; Graduate, Mary Baldwin Seminary, 1901; Instructor in Piano, Bridgewater College, 1904-07; Private Teacher of Piano and Organ, 1907-14; Student, Peabody Conservatory of Music, summer, 1919. Instructor in Piano, Bridgewater College, 1914—.

CHARLES WILLIAM ROLLER

Assistant Professor of Theory of Music and Voice

Graduate, Music Teachers' Course, Bridgewater College, 1903; Professor of Music, Maryland Collegiate Institute, 1900-02; Student, Peabody Conservatory of Music, summer, 1914; Student, Moody Institute, summer, 1905; Student, Oberlin Conservatory of Music, 1907-08; Private Student of D. A. Clippinger, summer, 1905; Private Student of Fred W. Root, summer, 1909; Assistant Professor of Music, Bridgewater College, 1905—.

ALLAN B. BICKNELL, M. A., PH. D.

Professor of Modern Languages

B. A., Brown University, 1896; M. A., *ibid.*, 1897; Instructor in Latin, *ibid.*, 1896-97 and 1898-99; Ph. D., *ibid.*, 1899; Teacher, Milton Academy, 1900-02; Professor of Latin, West Jersey Academy, 1902-04; Professor of Languages, Wenonah Military Academy, 1904-06; Professor, Bridgewater College, 1906—; Vacation Student, University of Grenoble, France, 1912; Vacation Student, University of Marburg, Germany, 1914.

WILLIAM T. SANGER, M. A., PH. D.

Professor of Psychology and Education

- B. A., Bridgewater College, 1909; M. A., Indiana University, 1910; Student, Columbia University, Summer, 1911; Junior and Senior Fellow in Psychology, Clark University, 1912-13 and 1915; Ph. D., *ibid.*, 1915; Professor of History and Philosophy, Bridgewater College, 1910-12; Professor of Philosophy and Education, *ibid.*, 1913-16; Instructor in Education, Harrisonburg State Normal School, Summers, 1913-16; Registrar, and Instructor in Education, and Director of the Summer Session, *ibid.*, 1916-17; Dean, Head of the Department of Education and Director of the Summer Session, *ibid.*, 1917-19; Assistant in High School Inspection for Virginia, 1917-19; Special Collaborator and Member of Field Staff, Virginia State School Survey, 1919; Dean and Professor of Psychology and Education, Bridgewater College, 1919—; Professor of Psychology, University of Utah, Summer, 1920; Professor of Education, University of Virginia, Summer, 1921.

FRANK J. WRIGHT, M. A., PH. D.

Professor of Geology

- B. A., Bridgewater College, 1908; M. A., University of Virginia, 1911; Scholar in Geology, Columbia University, 1916-17; Professor of Geology, Bridgewater College, 1911-16; Ph. D., Columbia University, February, 1918; Instructor and Associate in Geology, Bryn Mawr College, 1917-18; Instructor in Geology, Columbia University, Summer School, 1918 and 1920-21; Assistant in Geology, Virginia Geological Survey, 1914-18; Assistant Geologist, 1919—; Professor of Geology, Bridgewater College, 1919—.

CHARLES EUGENE SHULL, M. A.

Professor of Mathematics and Physics

- B. S., Bridgewater College, 1913; M. A., *ibid.*, 1915; Head Department of Mathematics, Jefferson School for Boys, 1914; Fellow in Mathematics, University of Virginia, 1913-14; Student Johns Hopkins University, summer, 1914; Professor Mathematics and Physics, Bridgewater College, 1914-17; Student, University of Illinois, summer, 1917; Student, Georgia School of Technology, 1918; Student, Ohio Northern University, summer, 1919; Professor of Mathematics and Physics, Bridgewater College, 1919—.

CHARLES C. WRIGHT, B. A.

Professor of Social Science

- B. A., Bridgewater College, 1918; Student, University of Virginia, 1914-15; Graduate Student, Columbia University, summers, 1918, 1919, 1920, 1921; Principal Commercial Department, Bridgewater College, 1915-16; Instructor and Professor, Bridgewater College, 1916—; Candidate, M. A. Degree, Columbia University, summer, 1921.

JOHN T. GLICK, B. A.

Associate Professor of History

- B. A., Bridgewater College, 1915; Instructor, *ibid.*, 1913-14; Graduate Student, Northwestern University, 1915-16; Student, School of Expression, *ibid.*, summer, 1916; Associate Professor of History and Public Speaking, Bridgewater College, 1916—.

JOHN D. MILLER, M. A., M. D.

Instructor in Hygiene and College Physician

- B. A., Bridgewater College, 1901; M. A., *ibid.*, 1912; Acting Professor of Mathematics, Bridgewater College, 1901-03; Student, Virginia Medical College, 1903-06; M. D., *ibid.*, 1906; Practicing Physician, 1906—, Postgraduate work, Philadelphia General Hospital, American Stomach Hospital, and German Hospital, Philadelphia, 1912; Secretary Rockingham County Board of Health, 1911—; Lecturer and Instructor in Hygiene, College Physician, Bridgewater College, 1916—.

JAMES A. HARMON

Instructor in Violin

Student, Dana's Musical Institute; Instructor, Shenandoah Collegiate Institute and School of Music; Instructor State Normal School, Harrisonburg; Instructor, Bridgewater College, 1916—.

MICHAEL J. ZIGLER, M. A., PH. D.

Associate Professor of Psychology and Education

- B. A., Bridgewater College, 1916; Student, University of Virginia Summer School, 1915; Scholar in Pedagogy, Clark University, 1916-17; A. M., *ibid.*, 1917; Fellow in Pedagogy, *ibid.*, Sept. 1917-Feb. 1918; Graduate Student and Instructor in Psychology, Cornell University, Feb.-June, 1918; Graduate Student, Cornell University and Instructor in Psychology, Wells College, Jan.-June, 1919; Graduate Student and Instructor in Psychology, Cornell University, Sept. 1919-Feb., 1920; Ph. D., Cornell University, 1920; Associate Professor of Psychology, Bridgewater College, February, 1920—.

MINOR C. MILLER, B. A., M. R. E.

Associate Professor of Religious Education

- B. A., Bridgewater College, 1914; Principal, Mount Sidney High School, 1914-18; Director, Religious Education, Second District of Virginia, Church of the Brethren, 1918—; Graduate Student, Boston University, Feb., 1920-June, 1921; Graduate Student, Harvard University, 1920; M. R. E., Boston University, 1921; Director, Norfolk-East School of Religious Education, Braintree, Mass., 1920-21; Associate Professor of Religious Education, Bridgewater College, 1921—.

MARY MCKEE SEEBERT, B. S.

Dietitian and Assistant Professor of Home Economics

Household Arts Diploma, Harrisonburg State Normal School, 1918; B. S., in Home Economics, Harrisonburg State Normal School, 1920; Assistant to Dietitian, *ibid.*, summer, 1919; Dietitian in charge, Martha Washington Dormitory, Jobbers Overall Co., Lynchburg, Va., summer, 1920; Dietitian and Assistant Professor of Home Economics, Bridgewater College, 1920—.

EDWARD MARQUIS STARR, B. A., M. A.

Professor of Chemistry

- B. A., Oberlin College, 1910; M. A., Ohio State University, 1919; Teacher of Science and Mathematics, Rock Island High School, 1911-1917; Summer Student, Ohio State University, 1916; Assistant and Instructor in Chemistry, Ohio State University, 1917-1919; Professor of Chemistry, Bridgewater College, 1920—.

NELLIE MARTIN CRITZER, B. S.

Assistant Professor of English and French

Diploma, Harrisonburg State Normal School, 1918; B. S., Harrisonburg State Normal School, 1920; Assistant in English and French, *ibid.*, 1918-20; Instructor in English and French, Bridgewater Academy, 1920-21; Assistant Professor of English and French, Bridgewater College, 1921—.

EDWARD B. VAN PELT, B. S.

Associate Professor of Agriculture and Biology, Samuel M. Bowman Foundation

Graduate, McPherson College Academy, Agricultural Department, 1917; B. S., McPherson College, mid-year, 1921; Graduate Student, *ibid.*, 1921; Graduate Student, Kansas State Agricultural College, summer, 1921; Laboratory Assistant, McPherson College, 1917-21; Associate Professor of Agriculture and Biology, Samuel M. Bowman Foundation, Bridgewater College, 1921—.

EDGAR S. KIRACOFE, B. A.

Director of Physical Education

B. A., Bridgewater College, 1921; Teacher, Hebron Seminary, 1916-18; Student, Harrisonburg State Normal School, summer, 1917; Instructor, Bridgewater Academy, 1919-20; Assistant Coach, Bridgewater College, spring, 1921; Student, University of Illinois, summer, 1921; Director of Physical Education, Bridgewater College, 1921—.

Student Assistants

WILBIE S. HINEGARDNER, *Chemistry*.
BENJAMIN O. MILLER, *Chemistry*.
H. DEWEY THOMPSON, *Mathematics*.
J. CHARLES HARSHBARGER, *Physics*.
GRACE E. CLINE, *Library*.
MILDRED L. CONNER, *Library*.
J. QUINTER MILLER, *Library*.
ISAAC L. BENNETT, *Library*.
J. MAYNE BENNETT, *Library*.

Faculty Senate

PRESIDENT P. H. BOWMAN, *Chairman*.
PROFESSOR N. D. COOL, *Secretary*.
DOCTOR JOHN S. FLORY.
DOCTOR ALLAN B. BICKNELL.
DOCTOR WILLIAM T. SANGER.
DOCTOR FRANK J. WRIGHT.
PROFESSOR CHARLES E. SHULL.
PROFESSOR CHARLES C. WRIGHT.

Standing Committees of the Faculty

Administration: PRESIDENT BOWMAN, DR. SANGER, PROF. C. C. WRIGHT, PROF. COOL.
Classification and Curricula: DR. SANGER, DR. FLORY, PROF. ROLLER, DR. BICKNELL, DR. F. J. WRIGHT.
Government: PRESIDENT BOWMAN, DR. SANGER, MRS. MILLER, PROF. COOL, PROF. SHULL, PROF. C. C. WRIGHT.
Library: PROF. GLICK, DR. ZIGLER, MISS BERLIN, PROF. SHULL.
Student Activities and Public Events: DR. BICKNELL, MISS ARNOLD, MISS RICH-CREEK, MISS SEEBERT, MISS DEAN.
Social: MISS DEAN, MRS. McCANN, MISS SEEBERT, DR. WRIGHT, DR. ZIGLER.
Alumni: DR. F. J. WRIGHT, DR. ZIGLER, MISS ARNOLD.
Athletic Council: DR. F. J. WRIGHT, DR. ZIGLER, DR. MILLER, DR. SANGER, PROF. COOL, the coach and two students.
Debate Council: DR. FLORY, DR. BICKNELL, PROF. GLICK, MISS DEAN, and two students.

Bridgewater College

Location

Bridgewater College is located in the famous Shenandoah Valley in Rockingham County, one of the celebrated agricultural sections of the Old Dominion. It is more than twelve hundred feet above sea level and in view of the Blue Ridge Mountain some twenty miles to the east and of the Alleghanies almost as far on the west. It is noted for its invigorating and healthful climate and for its wealth and charm of natural scenery.

Bridgewater is a typical college town of about one thousand inhabitants, largely of the retired class; they are people of culture and refinement. There are good business enterprises in the town and several excellent stores. The town is located on the Chesapeake-Western railroad, twenty miles north of Staunton, on the C. O., twenty-seven miles west of Elkton, on the N. & W., seven miles south of Harrisonburg, on the B. & O., and the Southern, and is accessible from all directions.

History

Bridgewater College was started as the Springcreek Normal and Collegiate Institute, in the fall of 1880. Rev. Daniel C. Flory, the founder and first principal, organized the work, and conducted it at Springcreek the first two sessions.

In 1882 it was decided to increase the facilities of the institution. A Board of Trustees was appointed and the location of the school changed from Springcreek to Bridgewater. A charter was secured under which the name was changed to Virginia Normal School. A site for the institution was secured at the eastern side of the town of Bridgewater and steps taken at once to provide a building for its accommodation. A suitable building was erected, forty by eighty feet, three stories above the basement. This was built of brick and arranged to provide accommodations for a complete boarding school, class rooms, sleeping rooms, chapel, kitchen, etc. While the building was being erected, quarters were secured in the town for the session. The fourth session in the fall of 1883 opened in the new building on the present site of the college.

The work steadily grew until 1888, when a dormitory was provided

for the young ladies, known as the White House. The next year, on December 31st, the first building was destroyed by fire. Steps were immediately taken for the erection of two buildings to replace the one destroyed. The enrollment of this session was a hundred and sixty.

In April, 1889, a new charter was secured and the name changed from Virginia Normal School to Bridgewater College. This was done to meet the growing demands of the school for advanced work. A body of students was already pursuing a definite college course when this change was made, and two years later, in June, 1891, three young men were graduated from the college with the degree of Bachelor of Arts.

Other departments of work have been added from time to time as demands came. As early as 1882, Professor George B. Holsinger became associated with the institution as Director of Music. Under his fostering care interest in music grew, and Bridgewater has been something of a musical center since. In 1898, a Bible School was organized, but a definite course of study was not offered until several years later. In 1919, by a bequest of Samuel M. Bowman, Agriculture and Home Economics were provided.

Though owned and controlled by the five state districts of the Church of the Brethren, in Virginia and West Virginia, this school has always extended a most cordial welcome to students without regard to sect and without discrimination. Members of a number of different denominations are yearly represented in the student body.

Standing

Bridgewater is a standard four-year college, as accredited by the Virginia State Board of Education. A number of its graduates have won distinction in leading American universities and in various professional schools.

Ideals

Through the decades Bridgewater has established standards of high and accurate scholarship. Small classes, frequent conferences with faculty members, and an adequate system of reports and of supervising student progress and other activities, make this possible. Notwithstanding, the function of character in individual and national achievement is not overlooked. Ample stress is laid upon the time-honored homely virtues; liberal, yet positive Christian influences constitute a large element of the college atmosphere. Democracy, service, thoughtful cooperation for the common good, hard work and fair play, are other fundamental elements of this same atmosphere. Natural, home-like

standards of control are conspicuous in the administration of the institution. The double task of providing full opportunity for young life to develop both capability and desire to be useful is a constant ideal.

Function of a College

The recognized purpose of a standard college is to offer liberal, comprehensive training of four years, with as much specialization as the time will permit. True to this purpose Bridgewater provides courses leading to the Bachelor of Arts and Bachelor of Science degrees but makes no pretense of attempting graduate, technical or professional work.

The aim is to put quality first and to encourage students to go elsewhere for courses not offered here. With a faculty chosen for personality, scholarship, and teaching ability; with students intimately associated with the faculty both inside and outside of class; with emphasis upon both character and scholarship; with high standards of entrance and graduation; with extensive library and laboratory facilities; with unusual adaptation of work to individual needs; with expenses kept to a minimum consistent with general facilities; with faculty-regulated and fostered student activities; with these and other advantages, it is believed Bridgewater can justly be said to place first emphasis upon quality.

Co-education

From its beginning Bridgewater has insisted that co-education is both normal and helpful. The enrollment of men and women is now about equal in number. The system of electives in the Junior and Senior years gives rather free opportunity for the cultivation of individual taste and aptitude.

Plant and Equipment

Grounds

The original grounds comprise about fourteen acres. Of this, the old campus is shaded by a beautiful maple grove and covered with blue grass sod. The college farm, recently acquired, adjoins the campus, and contains about one hundred acres.

Buildings

Stanley Hall. This building, used primarily for the department of music and the academy, was erected in 1889. It also contains the chapel which has a seating capacity of about three hundred.

White House. Erected in 1888 and enlarged in 1892 and 1919, this building houses, on the first floor, the boarding department, dietitian's office, and day students' room for young women. The second floor provides dormitory rooms for young women.

Founders Hall. This was built in 1904. It accommodates the college library at present, the administrative offices, class rooms, certain laboratories, and the museum. Its equipment has lately been enlarged.

Yount Hall. This dormitory for young women, erected in 1905, was named to commemorate the long and valued services of President Walter B. Yount, and his gifted mother, Mrs. Margaret C. Yount. A large, attractive parlor for social purposes is provided on the first floor. The dormitory rooms are unusually large and well lighted. They are furnished with oak dressers, wash stands, tables and chairs and equipped with iron beds, springs and mattresses.

Gymnasium. This two story, brick building was erected in 1908. A gallery was added in 1920. Built for a gymnasium, it affords adequate room both for class work in physical education and for indoor athletics. The senior class of 1913 equipped the gymnasium as an auditorium. As such it will accommodate large crowds at commencement and other special occasions.

Wardo Hall. This dormitory for young men was built in 1910. It is constructed of brick and concrete and is modern in its appointments. The three stories above the basement provide rooms for about seventy young men and also a reception room on first floor. The rooms are of ample size and well lighted and ventilated. The furnishing is comfortable. The building is provided with toilets, baths, and lavatories.

The Church. A new church was built on the grounds just opposite Wardo Hall in 1914. This is a brick structure providing adequate equipment for Sunday School and other church activities. It contains twenty special Sunday School rooms besides a large audience room and a basement under the entire building. It is heated by low pressure steam and lighted by electricity and provided with lavatories, toilets, etc. The seating capacity is about one thousand. The building was provided by the Bridgewater congregation with some assistance from alumni.

Alumni Infirmary. This was donated, together with its equipment, by the Alumni Association in 1916. The building is a two-story frame cottage of four rooms, besides a nurse's room, baths and toilets. It is provided with city water and heated by a hot-air furnace. The rooms are furnished in hospital style, convenient, pleasant, sanitary. The building is located just east of Yount Hall, and is in the care of the school nurse and college physician. It serves an excellent purpose in promoting health conditions in the college.

James K. Wright Cottage. This generous gift was made to the college January 1, 1916. This attractive place is now occupied by the principal of the academy.

President's Home. This property was acquired for the president of the college during the session of 1918-19. It is situated across the street from the old campus.

Dean's Home. This residence is located opposite Yount Hall and was bought during the fall of 1919.

Heating Plant. The new thoroughly modern high-pressure heating plant was completed in 1921. It supplies heat for the entire institution, including the apartment house and the homes of the president and dean. Steam for heating water and for cooking is also furnished by this plant.

Apartment House. A twenty-room apartment house was built during the summer and fall of 1920. There are four complete apartments heated with steam. For the present ladies of the college will occupy this building. Later it will be used for the faculty.

College Barn. A model dairy barn has just been erected on the college farm. It contains an office and class room for the college department of agriculture.

Library

The college library contains about eleven thousand bound volumes, besides numerous pamphlets. The books are catalogued by the decimal system which makes them readily available and of easy access. The reference library is well supplied with encyclopedias, dictionaries, atlases and various other books of reference.

In connection with the library is a reading room, provided with the leading magazines and reviews and daily and weekly newspapers. Students are required to do library work.

Museum

Through the benevolence of friends and patrons and partly by purchase, the college has been enabled to secure a very useful collection of minerals, fossils, natural curios, etc. The cases now contain hundreds of specimens which are of great value in the study of natural sciences. A good-sized room in Founders Hall has been set apart for this department of science and the attention of friends of the college is kindly called to the further needs of the museum.

Laboratories

Standard equipment is provided for chemistry, physics, biology, geology, psychology and home economics. New gas equipment for laboratory purposes was added during the session of 1919-20.

Music Rooms

The practice rooms and studios of the music department provide seven pianos for general use, one Stieff concert grand piano, and two cabinet organs. The literary society halls are also equipped with pianos.

Surveying

The college is equipped with high-grade surveying instruments, including a compass, transit, level rod, stadia rod, tapes, chain and accessories which go to make a complete surveying outfit.

Literary Society Halls

Both the Virginia Lee and Victorian Literary Societies of the college are provided with well furnished, attractive halls in which weekly meetings are held. This type of work receives special encouragement at Bridgewater.

Athletic Field

An easily accessible, well located athletic field of about three acres furnishes facilities for out of door sports. There are also tennis, volley and basketball courts.

College Farm

The college farm, adjoining the campus, comprises about one hundred acres. It is used for demonstration purposes in connection with the department of agriculture. A new, thoroughly modern barn is now available. A dairy herd and other stock will be kept. In addition to offering adequate facilities for instruction the farm and dairy herd will supply the college boarding department with fresh produce under personal supervision and control.

Student Activities

Student activities offer attractive opportunities for the cultivation of individual traits of personality which the regular course of study often fails to reach. These activities need both fostering and regulation. The student activities committee of the faculty is charged with such responsibilities at Bridgewater.

Plan of Regulation

1. It is recommended that students spend not more than one hour daily in work connected with student activities outside of the regular recreation period from 4:30 p. m. to supper.

2. No group of students will presume to organize another student activity without the permission of the faculty, secured through the student activities committee.

3. No student activity is permitted to practice or hold meetings later than 8:00 p. m. on any study night, except by special permission from the student activities committee.

4. Before beginning the rehearsal of any play, this should be passed upon by the student activities committee. When any play is approved rehearsals may commence.

5. In order to prevent students from overloading with student activities, so detrimental to health and satisfactory class work, these are evaluated by the point system. Students may carry a maximum of ten points, unless falling behind in regular class duties. The rating is as follows:

Editor of the *Philomathean Monthly*, 8; manager of the *Philomathean*, 6; associate editor, assistant editor, assistant manager of the *Philomathean*, 3; president senior class, 5; president other classes, 1; lyceum committee, 4; intercollegiate debate, 8; president Y. W. C. A. or Y. M. C. A., 2; member Y. W. C. A. or Y. M. C. A., 1; member literary society, 2; president Student Volunteers, 3; member Student Volunteers, 2; participation in a public play, 6; participation in an operetta, 4; member glee club, 1; manager Glee Club, 1; member athletic teams, 4; manager or assistant manager athletic teams, 2; treasurer

athletic teams, 2; member volunteer study classes, 4; member Ministerial Conference, 1.

Note—In case an individual is manager (or assistant manager) and player on an athletic team, this combination totals five points instead of six points. Furthermore, before a student carrying a full quota of points may enter upon an activity like a play or operetta, he must drop sufficient points so that his total points for the time will not exceed ten.

Literary Societies

The Virginia Lee and Victorian Literary Societies are open to all regular college students. They meet weekly in their respective halls on Saturday night. Their programs are varied attractively. Bridgewater has achieved some distinction for this class of work. Yearly contests are held between the societies.

Young Women's Christian Association

Weekly meetings are held by the young women of the college under this organization. Public programs are occasionally given. Besides, social and religious activities are entered upon. Committees meet trains at the opening of the session and otherwise make new students welcome and comfortable. At present the Association is supporting a Chinese girl in school in China. Delegates are sent to the Blue Ridge Conference.

Young Men's Christian Association

Weekly meetings and a Sunday morning prayer meeting are held by this Association. Infrequently speakers are brought to the college for public occasions. The Association maintains a reading and assembly room in Wardo Hall, conducts Bible study classes, and participates in State and other meetings. Delegates are sent to the Blue Ridge Conference.

Intercollegiate Debate

Under the debate council composed of faculty and student members, intercollegiate debates are scheduled. The plan is to train two college teams yearly. These usually debate the same subject, one taking the affirmative, the other the negative side of the question.

Athletics

Athletics are provided for the young women and for the young men. The Athletic Association, the department of physical education and the athletic council work together to maintain organized sports on a high level of achievement. Detailed athletic regulations are printed else-

where in this catalog; also refer to the announcements of the department of physical education.

The Philomathean Monthly

The Virginia Lee and Victorian Literary Societies jointly publish *The Philomathean Monthly*. This modest periodical provides a profitable means for the interpretation of all student activities of the college to the entire institution and its friends. The magazine staff is elected annually in the spring and installed with an appropriate program at chapel.

Volunteer Mission Band

This organization is actively affiliated with The United Student Volunteers of the Church of the Brethren and with The Student Volunteer Movement for Foreign Missions, the influential national organization comprehending the foreign volunteers of all student bodies throughout the United States and Canada. The Bridgewater Volunteers during the session of 1920-21 numbered fifty-six, seventeen of whom are foreign volunteers. They hold devotional meetings, volunteer study classes, and do deputation work in nearby communities. Former members of this Band are already on the mission fields of China and India.

Ministerial Conference

The ministerial students are organized for conferences. Members of the faculty and guests from without the institution contribute to these conferences helpfully.

Lyceum Course

The Lyceum Course is managed by a committee of five, four of whom are representatives of the literary societies. Under this plan some of the best musical organizations and lecture talent available are brought to the college. The course is popular with the community as well as with students. It has come to be a problem to meet the demand for tickets.

Musical Organizations

The two glee clubs, the college quartet, and the orchestra are active organizations, furnishing abundant expression to musical talent. These hold weekly rehearsals and give concerts from time to time. They occasionally represent the college at other institutions.

Admission Requirements

A general threefold entrance requirement is stipulated for admission to Bridgewater College; the details of admission appear later.

1. The candidate for admission must furnish evidence of good moral character. Provision is made for such certification on the entrance blank furnished by the college which must be filled out by the proper official of the school last attended. Students entering with advanced standing will likewise furnish valid evidence of good character and good standing in the school or college last attended.

2. The minimum age for admission is sixteen years; it is recommended that the candidate be older than this, except under extraordinary circumstances.

3. The candidate's academic preparation must be equivalent fully to graduation from a standard, accredited four-year high school. This preparation is measured in terms of *units*. Fifteen units, as distributed below, are required for entrance.

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. This definition of an entrance unit takes the four-year high school as a basis and assumes: (1) that the length of the school year is from thirty-six to forty weeks; (2) that a period is from forty to sixty minutes in length; (3) that the study is pursued four or five periods a week; under ordinary circumstances a satisfactory year's work in any subject can not be accomplished in less than 120 sixty-minute periods, or their equivalent. Schools organized on any other than a four-year basis can nevertheless estimate their work in terms of this unit.

Fifteen units represent the credit that will be given for the satisfactory completion of a standard, four-year high school or preparatory school course. (Note distribution of units given below.)

Candidates for admission who are graduates from four-year schools running eight, instead of nine, months will have their credits scaled down one-ninth. Such candidates should arrange to attend an approved summer school in order to be able to present the full requirements for en-

trance. The dean of the college will outline the summer work that should be taken.

Distribution of Entrance Units

The fifteen units required for entrance must be distributed in accordance with the requirements of the course to which entrance is sought. These tables specify the distribution of units required for entrance to the Bachelor of Arts and the Bachelor of Science courses:

FOR B. A. COURSE		FOR B. S. COURSE	
English	3	English	3
Mathematics	2	Mathematics	3
Latin	2	Foreign Language	2
History	1	History	1
Science	1	Science	1
	9		10
Elective	6	Elective	5
	15		15

The requirement for admission to the pre-medical course is identical with the requirement for admission to the Bachelor of Arts course, except any one foreign language may be offered instead of Latin.

SUBJECTS ACCEPTED FOR ADMISSION

These must be distributed according to the preceding tables.

English

1. Advanced Grammar, Analysis, Composition, 1 unit.
2. Rhetoric and Composition, 1 unit.
3. Literary Masterpieces and Composition, 1 unit.
4. History of English and American Literature and Classics, 1 unit.

Mathematics

1. Algebra to Quadratics, 1 unit.
2. Plane Geometry complete, 1 unit.
3. Quadratics, Progressions, Binomial Theorem, $\frac{1}{2}$ or 1 unit.
4. Solid Geometry, $\frac{1}{2}$ unit.
5. Plane Trigonometry, $\frac{1}{2}$ unit.

History

1. Ancient, 1 unit.
2. Medieval and Modern, 1 unit
3. English, 1 unit.
4. American and Civil Government, 1 unit.

Latin

1. Latin Elements, Grammar and Composition, 1 unit.
2. Caesar, Books I-IV, Exercises, 1 unit.
3. Cicero, six orations, Grammar and Composition, 1 unit.
4. Virgil, Books I-VI, Exercises, 1 unit.

Greek

1. Greek Elements, Grammar and Translation, 1 unit.
2. Xenophon's Anabasis, Books I-IV, 1 unit.

German

1. Grammar, Easy Reading, Exercises, 1 unit.
2. Reading Elementary and Intermediate Texts, Exercises, 1 unit.

French

1. Grammar, Translation, Exercises, 1 unit.
2. Translation, Grammar reviewed, Exercises, 1 unit.

Spanish

1. Grammar, Translation, Exercises, 1 unit.
2. Translation, Grammar reviewed, Exercises, 1 unit.

Science

1. Physical Geography, or General Science, 1 unit.
2. Agriculture, 1 unit.
3. Physics, with Laboratory experiments, 1 unit.
4. Chemistry, with Laboratory experiments, 1 unit.
5. Botany, with Laboratory experiments, $\frac{1}{2}$ unit.
6. Zoology, with Laboratory experiments, $\frac{1}{2}$ unit.

English Bible, 1 unit.

Freehand Drawing, $\frac{1}{2}$ unit.

Mechanical Drawing, $\frac{1}{2}$ unit.

Manual Training, 1 unit.

Commercial subjects, 1 to 3 units.

(Not more than four units of vocational subjects will be accepted.)

Admission by Certificate and Examination

Graduates of recognized, accredited secondary schools are admitted by certificate unconditionally to the freshman class. Application blanks for certificate admission should be secured from the dean of the college as early as possible in order to avoid disappointment and facilitate registration at the opening of the session.

Certificates from the College Entrance Examination Board will be accepted in lieu of secondary school records. Entrance examinations, too, will be given at Bridgewater in September for those desiring them. Applications for examination should be made to the dean.

Conditional Entrance

Conditional entrance is not permitted at Bridgewater. Those who fall short of the full requirements for admission are urged to make up the deficiencies in an approved summer school. Consult the dean regarding the work that should be pursued. In cases where summer study is impossible individuals may register in the academy affiliated with the

college for the winter session and later matriculate in the college when the full entrance requirements are met. An academy catalog is available; it furnishes full particulars.

Advanced Standing

Advanced standing may be granted for work done beyond the four-year course in a secondary school only after having passed written examination held by the college on the work in question. The examination must be held before the candidate is admitted to any advanced class in the department in which the subject falls.

Students who wish to enter from another institution in which college work has been done and who wish advanced credit in Bridgewater College for such work, must present a complete statement, certified by the institution from which transfer is sought, of all work taken in the institution, *together with high school or academy records covering the regular entrance requirements of Bridgewater College*. Such students are also expected to present letters of honorable dismissal from their former institution or other satisfactory evidence of good behavior. No student will be admitted to advanced standing who has not complied with these conditions.

Special Students

A student who is at least twenty years of age may be admitted as a special student, not a candidate for a degree, without satisfying in full the usual entrance requirements, provided he gives proof of adequate preparation for the course sought and he passes any examination which may be required for entrance to the classes which he wishes to take.

Description of Entrance Units

ENGLISH

The study of English has two main designs: First, a command of the language which enables the student to use it clearly, forcefully, and correctly in speaking and writing; second, such acquaintance with books as enables him to read intelligently, accurately, and with appreciation. The first of these designs is sought in the study of grammar, rhetoric and composition, the other in the study of literature.

1—*Advanced Grammar and Composition*. This work should show evidence of an accurate knowledge of the parts of speech and the structure of English sentences, including capitalization and punctuation. It should be correct in spelling and should show some knowledge of elementary composition.

2—*Rhetoric and Composition*. The work in Rhetoric covers Style and Invention. It should show an accurate use of words, a general

knowledge of literary form, the use of simpler figures of speech, and paragraphing, with frequent exercises in Description and Narration, and occasional ones in Exposition and Argumentation having been required.

3—*Literary Selections.* The specimens for reading are comprised under two groups, one for careful study and practice, the other for reading, the works of the former group to be read in class under the direction of the instructor and analyzed and discussed, the second group to be read as parallel work by the student out of class. Constant practice in reading aloud and oral interpretation and careful attention to pronunciation, phrasing, emphasis, breathing, vocal purity, etc., should be given.

4—*Literature.* This should include a survey of the history of English and American Literature, on the basis of Halleck's texts, with constant emphasis on the reading and interpretation of literary masterpieces.

As a guide to the material for study and reading in English 3 and 4, as described above, the following lists have been prepared. The books provided for study are arranged under four groups. One selection is to be made from each group.

A. FOR CLASS STUDY—One selection from each group.

GROUP I—*Drama.* Shakespeare's *Julius Caesar*, *Macbeth*, *Hamlet*.

GROUP II—*Poetry.* Milton's *L'Allegro*, *Il Penseroso*, and either *Comus* or *Lycidas*; Tennyson's *The Coming of Arthur*, *The Holy Grail*, and *The Passing of Arthur*; the selections from Wordsworth, Keats and Shelley in Book IV of Palgrave's *Golden Treasury* (First Series).

GROUP III—*Oratory.* Burke's *Speech on Conciliation with America*; Macaulay's two *Speeches on Copyright*; Lincoln's *Speech at Cooper Union*; Washington's *Farewell Address*; Webster's *First Bunker Hill Oration*.

GROUP IV—*Essays.* Carlyle's *Essay on Burns*, with a selection from Burns' Poems; Macaulay's *Life of Johnson*; Emerson's *Essay on Manners*.

B. FOR READING—Two selections from each group.

From the following five groups, ten selections are to be made for general reading, at least two from each group, except as otherwise provided under Group I:

GROUP I—*Classics in Translation.* The Old Testament, com-

prising 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, II, III, IV, V, XV, XVI, XVII; *The Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; and the *Æneid*. The *Odyssey*, *Iliad*, and *Æneid* should be read in English translation of recognized literary excellence. For any selection from this group a selection from any other group may be substituted.

GROUP II—*Shakespeare*. *A Midsummer Night's Dream*, *The Merchant of Venice*, *As You Like It*, *Twelfth Night*, *The Tempest*, *Romeo and Juliet*, *King John*, *Richard II*, *Richard III*, *Henry V*, *Coriolanus*, *Julius Caesar*, *Macbeth*, *Hamlet*, if not chosen for study under B, above.

GROUP III—*Prose Fiction*. Mallory's *Morte d'Arthur*, at least 100 pages; Bunyan's *Pilgrim's Progress*, Part I; Swift's *Gulliver's Travels*, voyage to Lilliput and to Brodingnag; Defoe's *Robinson Crusoe*, Part I; Goldsmith's *The Vicar of Wakefield*; Frances Burney's *Evelina*; Scott, one novel; Jane Austen, one novel; Maria Edgeworth's *Castle Rackrent*; or *The Absentee*; Dickens, one novel; Thackeray, one novel; George Eliot, one novel; Mrs. Gaskell's *Cranford*; Kingsley's *Westward Ho!* or *Hereward*, *The Wake*; Reade's *The Cloister and the Hearth*; Blackmore's *Lorna Doone*; Hughes' *Tom Brown's School Days*; Stevenson's *Treasure Island*, or *Kidnapped*, or *The Master of Ballantrae*; Cooper, one novel; Poe's *Selected Tales*; Hawthorne's *The House of Seven Gables*, or *Twice-Told Tales*, or *Mosses from an Old Manse*; a collection of short stories by various standard writers.

GROUP IV—*Essays, Biography, Etc.* Addison and Steele's *The Sir Roger de Coverly Papers*, or selections from *The Tatler* and *Spectator*, 200 pages; Boswell, selections from *The Life of Johnson*, 200 pages; Franklin's *Autobiography*; Irving selections from *The Sketch Book*, 200 pages, or *Life of Goldsmith*; Southey's *Life of Nelson*; Lamb, selections from the *Essays of Elia*, 100 pages; Lockhart, selections from *The Life of Scott*, 200 pages; Thackeray, lectures on Swift, Addison, and Steele in *The English Humorists*; Macaulay, any one of the following essays: *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*, *Goldsmith*, *Frederick the Great*, *Madame d'Arblay*; Trevelyan, selections from *The Life of Macaulay*, 200 pages; Ruskin's *Sesame and Lilies* or selections, 150 pages; Dana's *Two Years Before the Mast*; Lincoln, selections, including at least two inaugurals, the speeches in Independence Hall and at Gettysburg, the *Last Public Address*, *The Letter to Horace Greeley*, together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail*; Thoreau's *Walden*; Lowell's *Selected Essays*, 150 pages; Holmes's *The Autocrat of the Breakfast Table*; Stevenson, *An Inland Voyage and Travels with a Donkey*;

Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; a collection of essays by Bacon, Lamb, DeQuincy, Hazlett, Emerson, and later writers; a collection of letters by various standard writers.

GROUP V—*Poetry*. Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley, if not chosen for study under A; Goldsmith's *The Traveler* and *The Deserted Village*; Pope's *The Rape of the Lock*; a collection of English and Scottish ballads, as, for example, some *Robin Hood Ballads*, *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick* and *Grahame*, *Sir Patrick Spens*, and a selection from later ballads; Coleridge's *The Ancient Mariner*, *Christabel*, and *Kubla Khan*; Byron's *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon*; Scott's *The Lady of the Lake* or *Marmion*; Macaulay's *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*; Tennyson's *The Princess* or *Gareth and Lynette*, *Lancelot and Elaine*, and *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*, *Herve 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*; Arnold's *Sohrab and Rustum*, and *The Forsaken Merman*; selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

MATHEMATICS

1—*Elementary Algebra*. The fundamental principles of algebra should be carefully studied, with special emphasis upon factoring, the statement of problems in the form of equations, radicals, quadratics, and progressions. A year and a half is ordinarily required to complete the work.

2—*Plane Geometry*. A standard text, such as Wells, *Essentials of Geometry*, is prescribed. The student should show ability to demonstrate theorems and solve original problems.

3—*Advanced Algebra*. Work in this subject should include the more difficult portions of secondary algebra, emphasis being placed on ratio and proportion, progressions and the binomial theorem.

4—*Solid Geometry*. Solid geometry may be offered as a half unit in mathematics for college entrance.

5—*Trigonometry*. May be offered for one-half unit.

LATIN

1—Latin Elements, Grammar and Composition; Easy Reading.

2—Cæsar, Books I-IV, with Grammar and Exercises.

3—Six orations of Cicero, including the four against Cataline; Exercises and Grammar.

4—Virgil's *Æneid*, Books I-VI; Exercises and Grammar.

GREEK

1—White's *First Greek Book*; Xenophon's *Anabasis*, Book I; Exercises.

2—Xenophon's *Anabasis*, Books II, III, IV; Exercises and Grammar.

GERMAN

1—Joynes-Wesselhoeft's *Grammar*, Part I, or other standard grammar; Exercises; Reading of about 150 pages of graded text, including such as Carmen Sylva's *Aus meinem Konigreich*, and Hillern's *Hoher als die Kirche*.

2—Grammar reviewed, and reading of about 400 pages of elementary and intermediate German text, including prose and poetry. Such texts as Grimm's *Kinder und Hausmarchen*, Manly's *Der Zerbrochene Krug*, Dillard's *Aus dem deutschen Dichterwald* should be used.

FRENCH

1—Frazer and Squair's *French Grammar*, Part I, or other standard text; Exercises; about 200 pages of easy French prose, from such texts as Super's *French Reader*; Merrimee's *Colomba*, etc.

2—Frazer and Squair's *French Grammar*, or other standard text; reading from such texts as Dumas' *Monte Cristo*, making about 400 pages of prose and drama.

SPANISH

The same standards are set for Spanish as are here given for French. One unit is allowed for each year's work.

SCIENCE

1—*Geography*. A careful study of Physical Geography and Commercial Geography. A half or full year should be given to each. Any of the standard texts will be accepted.

2—*General Science*. This subject as taught in accredited Virginia secondary schools will be accepted for one unit.

3—*Agriculture*. This course should begin with a general survey of the field of agriculture and treat such subjects as domestic animals, economic plants, soils, fertilizers, farm crops, animal husbandry, gardening, etc.

4—*Botany and Zoology*. If given under standard laboratory conditions, one-half unit may be allowed each of these.

5—*Physics*. A general knowledge of the subject is required, on the basis of such a text as Millikan and Gales' *First Course in Physics*. Each student is required to present a note book covering a number of simple experiments accurately described.

6—*Chemistry*. With approved laboratory work will be accepted for one unit.

HISTORY

1—*Ancient*. West's *Ancient World*, or a similar text.

2—*Medieval and Modern*. Myers', or West's or a text of similar grade.

3—*English*. Wrong's *History of the British Nation*, or Cheyney's, Larned's or a similar text should form the basis of this work.

4—*American*. This unit should comprise a standard text in the United States history, as Hart, a history of Virginia and a standard civil government, State and national.

DRAWING

1—*Freehand*. Drawing from models and sketching from still life and nature, with attention to the effects of light and shade and to the elementary rules of perspective. May be given one-half unit.

2—*Mechanical Drawing*. This work should cover the use of instruments, simple geometrical drawings, projectional drawings of solids, etc. May be allowed one-half unit.

MANUAL TRAINING

Work in this subject should include the handling and care of tools. The practical work should include simple exercises, such as the plane surface, the right angle, the mortise, etc. Following this some simple pieces of furniture should be constructed concluding with such a piece of furniture as a bookcase, library table, music cabinet, or center table. One unit.

COMMERCIAL SUBJECTS

This distribution of units in commercial subjects will be acceptable: bookkeeping, one unit; stenography, one unit; typewriting, one-half unit; commercial arithmetic, when given in the fourth year of the course, one-half unit. All of this work must be done in an accredited, nine-months' secondary school.

Requirements for Graduation

B. A. and B. S. Degrees

The Semester Hour. The basis of credit is the semester hour. This is the unit assigned a class which meets one period weekly for lecture, recitation, quiz, or laboratory during one-half of the college year. Lecture or recitation periods are one hour in length; laboratory periods are three hours in length. Two hours of preparation are expected for each hour of lecture or recitation. Each hour of credit presupposes three hours' work on the part of the student, two hours spent in preparation and one in class or three hours in class in case the work is laboratory.

Hours Required. One hundred and twenty-four semester hours are required for either the B. A. or the B. S. degree, distributed according to the tables given later. Physical education required for three years carries no credit. Thirty-two semester hours are required in the freshman and sophomore years and thirty semester hours in the junior and senior years.

Credits Required. In addition to the quantitative standard of one hundred and twenty-four semester hours for graduation, Bridgewater sets a qualitative standard of one hundred and twenty-four credits. A class grade of C carries for each semester hour one credit; B, two credits; A, three credits. A grade of D, though passing, carries no credit; D counts only toward the semester hours required. Thus a class grade of C on a three hour course for a semester carries a credit of three towards graduation; a class grade of B on the same course would make six credits; a grade of A, nine credits. In order to graduate a student must make an average of C on one hundred and twenty-four semester hours' work, that is, make an average of C for his entire course.

Passing Grade. The passing grade on a regular schedule of work is 75. Grades are assigned thus: A, approximately, 95-100; B, approximately 88-94; C, approximately 81-87; D, approximately 75-80; E, approximately 60-74, is conditioned, not passing; and F, below 60, represents total failure. Students are given literal grades; the numerical grades are recorded in the dean's office.

In case a course runs through both the first and second semester the grades for the year may be averaged, provided the grade for the first

semester is not lower than E and the grade for the second semester is higher than E. No other combination of grades may be averaged.

Residence Requirement. To receive a degree from Bridgewater College at least one year must be spent in residence here.

Examinations. Three hour examinations are held in each subject at the end of each semester. The grades thus derived are averaged with the class grades to determine the final semester grades. After the close of the semester examinations instructors may post in their class rooms the names of those passing in their courses. Whenever a student is absent from an examination on account of unquestionable illness, he will arrange with his instructor, if possible, to take the examination later.

Re-examination. A grade of F debars from further examination; the course must be repeated. A student making a grade of E on any course may take a second examination on the course. The date for all conditioned examinations falls on the sixth or seventh Saturday of the following semester. Failure to take the examination then debars the student from further examination. A student may be re-examined but once.

Reports. Reports are sent in the middle and at the end of each semester both to parents and to students. Parents are furnished special reports at other times upon request to the dean's office.

Limitation of Work. The regular schedule of classes is fifteen or sixteen hours. The maximum number of hours is eighteen. To take eighteen hours formal application must be made through the dean's office to the committee on classification and curricula. *In event this application is granted a grade averaging on all subjects at least eighty per cent must be made for the semester, with no more than one grade below this mark.*

One piano lesson, or one art lesson, or one expression lesson, or two voice lessons may be taken weekly without special permission, if the regular maximum of sixteen hours has not been exceeded.

Absence from Class. For regulations, see under "General Considerations" elsewhere in this catalog.

Honors. Graduates are of two classes, *graduates* and *honor graduates*. To graduate with honors a student must make at least an average grade of B for the full course, or 248 credits. The names of such graduates are especially designated on the commencement program and in the annual catalog.

Hours (Semester) Prescribed for the B. A. Degree:

Languages	18 hours
English	12 hours
Science (two distinct fields)	16 hours
Mathematics	6 hours
Psychology and Education	6 hours
History	6 hours
Social Science	6 hours
Bible	4 hours
Hygiene	1 hour
Orientation	1 hour
Physical Education	
Electives	48 hours
	<hr/>
	124 hours

Hours (Semester) Prescribed for the B. S. Degree:

English	12 hours
Mathematics	18 hours
Science (two distinct fields)	32 hours
Foreign Language	12 hours
History	6 hours
English Bible	4 hours
Hygiene	1 hour
Orientation	1 hour
Physical Education	
Electives	38 hours
	<hr/>
	124 hours

Hours (Semester) Tabulated by Years:

For B. A. or B. S. degree, Freshman Year:

English (English 1-2)	6 hours
Bible (Biblical Literature 1-2)	4 hours
Chemistry (Chemistry 1-2)	8 hours
Mathematics (Mathematics 1-2)	6 hours
Foreign Language (any one)	6 hours
Hygiene (Physical Education 2 A)	1 hour
Orientation (Education 1 A)	1 hour
Physical Education	
	<hr/>
	32 hours

For B. A. degree, Sophomore Year:

English (English 3-4)	6 hours
Biology* or Geology	8 hours
Foreign Languages (any one)	6 hours
History (History 1-2)	6 hours
Physical Education	
Elective†	6 hours
	<hr/>
	32 hours

* Size of class limited; juniors and seniors given preference.
 † In case chemistry is elected, either biology or geology will be taken later in the course; only one science should be taken in sophomore year.

For B. S. degree, Sophomore Year:

English (English 3-4)	6 hours
*Biology or Geology	8 hours
Mathematics (Mathematics 3-4)	3 hours
History (History 1-2)	6 hours
Foreign Languages (any one)	6 hours
Physical Education	
*Elective	3 hours
	32 hours

*See note under B. A. degree, Sophomore year.

For B. A. degree, Junior and Senior Years:

Foreign Language	6 hours
Psychology or Education	6 hours
Social Science	6 hours
Physical Education	
Electives	42 hours
	60 hours

For B. S. degree, Junior and Senior Years:

Mathematics	9 hours
Science	16 hours
Physical Education	
Electives	35 hours
	60 hours

Premedical Course

A full course of four years leading to the B. S. or B. A. degree is strongly urged in preparation for medicine. Where this is impossible the three-year prevocational course, outlined later, is recommended. The minimum requirement for entrance to any medical school is the completion of sixty semester hours of prescribed work of college grade, covering at least two years. Because of the proportion of science included in the course only superior students can expect to complete the work in two years.

The Council on Medical Education of the American Medical Association has published the following essentials of the two-year pre-medical course:

The minimum requirement for admission to acceptable medical schools, in addition to the high school work specified above, is sixty semester hours of collegiate work in a college approved by the Council on Medical Education. The subjects included in the two years of college work should be in accordance with the following schedule:

SCHEDULE OF SUBJECTS OF THE TWO-YEAR PREMEDICAL COLLEGE
COURSE

Sixty Semester Hours* Required

Required Subjects:	Semester Hours
Chemistry (a).....	12
Physics (b).....	8
Biology (c).....	8
English composition and literature d).....	6
Other nonscience subjects (e).....	12

Subjects Strongly Urged:

A modern foreign language (f).....	6-12
Advanced botany or advanced zoology.....	3-6
Psychology	3-6
Advanced mathematics, including algebra and trigonometry.....	3-6
Additional courses in chemistry.....	3-6

Other Suggested Electives:

English (additional), economics, history, sociology, political science, logic, mathematics, Latin, Greek, drawing.

* A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recitation period per week, each period to be not less than fifty minutes net, at least two hours of laboratory work to be considered as the equivalent of one lecture or recitation period.

SUGGESTIONS REGARDING INDIVIDUAL SUBJECTS

(a) Chemistry.—Twelve semester hours required, of which at least eight semester hours must be in general inorganic chemistry, including four semester hours of laboratory work. In the interpretation of this rule work in qualitative analysis may be counted as general inorganic chemistry. The remaining four semester hours may consist of additional work in general chemistry or of work in analytic or organic chemistry. After January 1, 1922, organic chemistry will be required.

(b) Physics.—Eight semester hours required, of which at least two must be laboratory work. It is urged that this course be preceded by a course in trigonometry. This requirement may be satisfied by six semester hours of college physics, of which two must be laboratory work, if preceded by a year (one unit) of high school physics with laboratory work.

(c) Biology.—Eight semester hours required, of which four must consist of laboratory work. The requirement may be satisfied by a course of eight semester hours in either general biology or zoology, or by courses of four semester hours each in zoology and botany, but not by botany alone. This requirement may also be satisfied by six semester hours of college biology, including three semester hours of laboratory work, if preceded by a year (one unit) of high school biology or zoology with laboratory work.

(d) English Composition and Literature.—The usual introductory college course of six semester hours, or its equivalent, is required.

(e) Nonscience Subjects—Of the sixty semester hours required as the measurement of two years of college work, at least eighteen, including the six semester hours of English, should be in subjects other than the physical, chemical or biologic sciences.

(f) Foreign Language.—A reading knowledge of a modern foreign language is strongly urged. French and German have the closest bearing on modern medical literature. If the reading knowledge in one of these languages is obtained on the basis of high school work, the student is urged to take the other language in his college course. It is not considered advisable, however, to spend more than twelve of the required sixty semester hours on foreign languages.

Recognition.—This two-year premedical course in both quantity and quality must be such as to make it acceptable as the equivalent of the first two years of the course in reputable, approved colleges of arts and sciences leading to the degree of Bachelor of Science.

Hours prescribed for Premedical Course:

First Year

English	6 hours
Chemistry	8 hours
Biology	8 hours
French or German	6 hours
Mathematics	6 hours
Physical Education	
	—
	34 hours

Second Year

English or Foreign Language	6 hours
Physics	8 hours
Organic Chemistry	8 hours
Biology	8 hours
Drawing	
Physical Education	
	—
	30 hours

Prevocational Course

Upon the completion of three years of college work in this institution, meeting all requirements, a baccalaureate degree will be conferred after the satisfactory completion of the first year of medicine or law in a recognized institution. Arrangements must be made in advance where this combination of courses is desired.

In the near future it is likely that a combination will be provided for work in science and arts at Bridgewater with engineering elsewhere.

General Considerations

Matriculation. The importance of matriculating the first day of the session can not be urged too strongly. In case of unavoidable delay notify the president immediately in order that accommodations may be reserved. This will prevent disappointment.

The exact procedure of matriculation will be outlined in the Student Guide furnished each student. The matriculation and student fee must be paid before registration is complete. After the student receives his program card no changes of any character may be made in this without the permission of the dean, who will enter all changes officially.

Absence from Class. Every absence from class is a distinct loss which is practically irreparable. If on account of late entrance or other cause a student misses more than 20 per cent of any class for a semester he can not receive credit in this course even though he may pass the final examination; greater leniency may be shown in extraordinary cases, however.

Excuse for Absence. A limited number of excuses may be granted for absence from class and chapel, either because of illness or a real emergency. If possible, the excuse should be secured from the dean before the absence occurs; otherwise it should be secured from him as soon as possible after the student is again about his work. When an absence is excused this merely means that an opportunity will be given the student concerned to make up the work missed; it does not relieve the student from any further obligation.

Absences are reported weekly to the dean's office where all cases are considered and reported back to the faculty members concerned. An unexcused absence is a serious blot on a student's record. It will unquestionably lower the class grade, and it may lead to faculty discipline or debar from examinations. An unexcused absence following a school holiday deducts five per cent from the semester grade.

Chapel Attendance. An accurate record is kept of daily chapel attendance, which is compulsory. Faculty members and guests of the college conduct brief devotions and provide programs of music and lectures; other features are presented by student organizations.

Delinquent Reports. Instructors furnish the dean's office with monthly reports of students who are not doing satisfactory work. These

are personally interviewed by the dean and instructors concerned in an effort to determine the cause of delinquency. It not infrequently turns out that study methods or a lack of application are at fault. Experience has shown that personal work of this kind will prevent many class failures, especially with first-year students.

Freshman Mathematics. In order to prevent the high mortality in Mathematics 1-2, students who are falling behind in this work will be required to meet for an evening study hour under an expert coach who will supervise individual work. When a failing student makes sufficient progress he will be relieved of this supervised study requirement, if desired.

Honor System. The honor system in examinations has long prevailed at Bridgewater. New students catch its spirit and enthusiastically enter into its advantages. This pledge is required at the close of examination papers: "I have neither given nor received help on this examination."

Summer Study. Before students enter upon summer study for credit at this college the institution at which the work will be done and the course of study must receive the approval of the dean.

Teachers' Certificates. A State teacher's certificate is issued by the Virginia State Board of Education to those who have completed two years of college work of a certain type. This is a special certificate to teach high school subjects. The Collegiate Certificate, valid for five years and renewable for periods of ten years, is issued to graduates of this college. This is a desirable certificate and prospective graduates are encouraged to consider teaching as a profession that our good record of the past may be maintained.

Appointment Bureau. A Division of Recommendations is maintained by the dean's office in order to facilitate the location of graduates and students in desirable positions, especially teaching positions. Students and school officials are invited to avail themselves of this gratuitous service.

Going Home. Frequent home-going by students is positively discouraged. Parents are called upon to make every reasonable sacrifice to keep students in college without interruption. Visiting at home and away from college, even under regulation, breaks the continuity of work, makes against general health by change of routine, eating, and sleeping, and further exposes the whole institution to contagious and infectious diseases contracted while away. In the last several years epidemics have been difficult to control in almost every community; for the protection of the entire college group students must reduce their going and coming to the minimum. Students are received at this college

under this definite understanding. *Those unwilling to accept this condition should go elsewhere.*

Health Provisions. Through the college physician, resident nurse, proper sanitation and cleanliness, safeguarded food supplies, and physical education and hygiene, diligent efforts are made to promote health and physical welfare. Students developing any indisposition are required to report to the infirmary where proper nursing and nourishment can be secured. Food for the sick will be served only at the infirmary or on requisition of the nurse. A daily sick list is sent to the dean's office. Those whose names appear will be excused automatically from classes and no boarding student will be excused on account of illness whose name does not appear on the daily sick list.

Before entering college students should be vaccinated, if they have not been vaccinated recently enough to insure protection.

Outdoor Recreation. Apart from the requirements of the department of physical education students will discover the impossibility of keeping physically fit unless taking outdoor recreation whole-heartedly. The period from four-thirty to supper is set aside for this purpose. To spend this time for any other purpose will in the end prove unprofitable.

Guests. Guests of faculty and students are regarded as guests of the college and entertained without charge for two days in each semester. When the stay is prolonged beyond this time charges will be made for the extra time at the prevailing rates. Arrangements for guests should be made through the business office and with those in charge of the various dormitories. Visitors will conform to the usual regulations of the institution. Students are requested to present their guests to the president as soon after arrival as convenient.

Religious Life. Besides the religious opportunities of the student Christian associations, the Mission Band, and daily chapel services, Bridgewater offers further advantages. The college church cordially welcomes all students to its Sunday school, church services, and young peoples' activities. In the town of Bridgewater there are Methodist, Presbyterian, Baptist and Lutheran churches. Students are required to attend Sunday school and church services at the church of their choice. Members of the Church of the Brethren should bring their letters of membership and become members of the college church during their residence here.

Social Life. Through the years a guarded system of social regulations for both young women and men has developed as experience pointed the way. Details can not be given here. The regulations include provisions for proper chaperoning, a record of where students are both night and day, and written permission from home for young women

to spend the night out of college when this is desired and permitted. Helpful social features are planned during the session to cultivate social expression and recreation.

Government. As far as possible individual and group self government are maintained. The active government of the institution, however, is vested in the government committee of the faculty and the entire faculty working together. Special responsibilities are laid upon the president, the dean, and the social director. Plain and simple regulations are printed and available to all students. Among other things Bridgewater College stands positively against the use or handling of intoxicating liquors, the use of profane language, having or using firearms, hazing in any form, no matter how mild, organization and membership in secret societies, and the use of tobacco in the buildings or on the grounds. *Students who in advance can not subscribe to these fundamentals should not enter here.*

Whenever a student's stay at Bridgewater is profitless to himself or to others he will be asked to withdraw, even before any specific offense has been committed.

In all affairs of government the college is regarded as a large family. Any offense of one is an offense against all. The student body, as a whole, has an unusual record of co-operation for the common good. Thus viewing the interests of the whole group, cases of misdemeanor and their discipline are announced to the students who are called upon to assist unitedly in promoting the cherished ideals and standards of the college.

Student Mail. Boarding students will have their mail marked "College," with the dormitory and room number given as a part of the address. This will facilitate the mail delivery and avoid errors.

Lost Articles. The college will not be responsible for articles lost from students' rooms and elsewhere about the institution. Money should not be left in dormitory rooms. The Planters Bank of Bridgewater is convenient and will gladly receive student deposits. The treasurer of the college is usually prepared to cash student checks. Articles lost or found should be reported at once to the dean's office.

Athletics

Bridgewater College fosters sports, both indoors and out of doors, encouraging as many as possible to participate in them. They are maintained, not for a few, but for all. Every safeguard is exercised to insure healthy, manly contests upon the highest moral plane. Baseball, basket-ball, track, and tennis are played at home, and under certain restrictions teams may leave the college for games with other educational institutions.

Athletic Organization and Rules

The athletics of the college are under the supervision of the Athletic Council, which is composed of a member of the Board of Trustees, two members of the college faculty, two students of the college department, the Physical Director, and the dean of the college.

The member of the Athletic Council from the Board of Trustees is chosen annually at the spring meeting of the Board for the following session. At this same meeting the president of the college nominates two members of the college faculty to be approved by said Board. The Athletic Association of the college chooses two members in the spring, one of whom shall be the Treasurer of the Association, to represent the student body.

The Board of Trustees and the college faculty reserve the right to veto the decisions of the Athletic Council.

The Athletic Council may require a financial statement from the Treasurer of the Athletic Association at any time. The Council shall also constitute the final auditing committee of all athletic accounts, and to the Council all items of large expenditure shall be referred for approval before such expenditure is authorized.

The Athletic Association may award monograms or numerals, subject to the approval of the Athletic Council.

For the violation of athletic rules the Athletic Council may depose any manager, stop or cancel any game, or take any steps it deems necessary to promote clean athletics.

General Rules

1. A physical examination shall be required of all students before participating in athletic sports.
2. The Physical Director shall have general supervision of all college athletics.
3. The managers of the various teams are required to submit to the faculty through the chairman of the Athletic Council the schedule of games, accompanied by the contracts before any schedule becomes effective; and no game shall be played outside the schedule unless permission be secured through the regular channel of faculty permissions.
4. A leave of absence may be granted by the faculty for contest games away from the college not to exceed five days during any session for the various teams.

5. No athletic teams shall leave the college without faculty escort approved by the Council.

6. Members of teams and all students visiting out of town, except when in company or under control of parents or guardians, are subject to the regulations of the college.

7. Athletic teams shall not have contests elsewhere than upon the college grounds with any teams, except those from other institutions of learning.

8. College teams shall be allowed to play only teams composed wholly of amateur players.

9. Students other than those belonging to the team are not permitted to accompany athletic teams, except on Saturday afternoon, or except on permission from the dean.

10. It shall be the duty of the Physical Director to arrange for the reception and entertainment of visiting teams. Visiting teams will always be expected to conform to the general regulations of the college.

11. Members of athletic teams will be required to make up all academic work missed as directed by the instructors concerned.

12. Managers for the various teams shall be elected at the end of the season for each particular sport for the succeeding year and shall be required to submit to the chairman of the Council the schedules of contests four weeks prior to the date of the first game.

Eligibility Rules

1. No one except a bona fide student in this institution, taking at least fifteen hours work shall be eligible to play on any athletic team.

2. To be eligible to any athletic team playing in either semester, a student shall register within one week of the opening of the semester.

3. No one who is not doing satisfactory work in at least three-fourths of his class work shall be eligible to any team, and no student shall be eligible to any team in the second semester who has not passed at least twelve hours' work in the first semester. Any student failing to do satisfactory work at any time may be required to withdraw from any team.

4. No student under twenty-one years of age shall be permitted to play in any contest game, or accompany the team away from the college except by written permission of his parent or guardian previously directed to the dean of the college.

5. No one shall be allowed to play on, or have any official connection with a team, who uses tobacco in any form or who is under faculty censure, or whose conduct is in any way objectionable. *This regulation shall be operative from the beginning of the session.*

6. No student shall receive compensation in any form from the faculty or any other source for participating in college athletics.

7. Before becoming a candidate for any athletic team, each student shall secure a certificate of eligibility through the Athletic Council.

8. The coach shall be required to submit to the faculty through the dean of the college the proposed personnel of each team at least one week before the opening game and no student shall be allowed to represent the institution on any intercollegiate team until he has been approved by the faculty.

Scholarships, Aids and Honors

Scholarships

Every effort is made to encourage worthy students to continue or enter upon college training. It is an established policy of this institution not to permit a student to leave college merely for the want of funds, if he has made a creditable record. A number of scholarships are now available and it is hoped this list may be extended in the near future. Correspondence with the president of the college is invited.

* *The Missionary Scholarship.* The proceeds of seven hundred dollars, which is invested, is given each year to some worthy student preparing for active Christian service. The value of the scholarship is about forty dollars.

* *J. A. and Kittie Danner Hoover Scholarship.* The founders of this scholarship provide the full tuition expenses for a session of the college course. It is given to a worthy young person preparing for useful service in the church.

Jesse E. Rolston Scholarship. Through the gift of the gentleman whose name it bears, this scholarship has been available since 1912. It provides thirty-five dollars to some worthy person who is anxious to prepare for usefulness in life.

The D. Milton Leidig and Esther B. Leidig Scholarship. This scholarship, worth fifty dollars, is provided by those whose name it bears. It is given to some deserving student who requires financial aid to pursue his education.

Samuel S. Conner Scholarships. In 1919 Dr. Samuel S. Conner began the annual gift of \$150 for scholarships. Dr. Conner received the Bachelor of Arts degree from Bridgewater in 1908. He is now successfully practicing medicine at Waynesboro, Pa.

The John L. Driver Fund. This fund of one thousand dollars was established in 1919 by John L. Driver and wife, of New Hope, Va. The income from this fund provides for limited loans, at a low rate of interest, to worthy students.

* The beneficiary of each of these scholarships is required to sign an obligation for the amount of money he receives. If he should later decline to take up the work here contemplated, he will be required to refund the money he has received.

The Summit Scholarship. This scholarship of one hundred dollars is maintained by the Summit congregation, Church of the Brethren, Second District of Virginia. It is available for ministerial or missionary students. In awarding this scholarship preference is given applicants from the Summit congregation.

Rebecca M. Driver Scholarship Fund. This fund of one thousand dollars was established in 1919 by Mrs. Rebecca M. Driver, Timberville, Virginia. The income from this fund is available as a scholarship for a student from the Timberville Orphans' Home.

John L. Driver Scholarship Fund. In 1920 this fund of one thousand dollars was established by Elder John L. Driver and wife, Sangerville, Virginia. The income is available as a scholarship for ministerial students.

Dr. Charles Knox Cole Loan Fund. This loan fund of one thousand dollars was established in 1921 by Miss Virginia Garber Cole in memory of the late Charles Knox Cole, M. D., of New York. It is for the benefit of worthy students, especially those expecting to enter the medical profession. Miss Cole has provided for an annual increase of this fund.

Bridgewater College Scholarships. The college offers a number of scholarships, each valued at fifty dollars, to the honor graduates of a number of accredited high schools in the immediate territory of the institution. For the session of 1921-22 one scholarship is offered to high schools located as follows: Broadway, Elkton, McGaheysville, Luray, Weyers Cave, Woodstock, Waynesboro, Front Royal, Middletown, Winchester, Boyce, Stephens City, Harrisonburg, Bridgewater, Staunton, Monterey, and Hebron Seminary, Nokesville, Virginia.

Student Self-Help

A number of positions are open in college to both young women and men. These positions pay at least a part of the year's expenses. For further information, address the president of the college.

Honors

Honor Graduates. Details are given under "Requirements for Graduation."

Society Prizes. The two literary societies annually offer prizes in recitation, declamation, or debate. For 1919-20 five ten dollar medals were provided by these generous friends of the societies: George J. Robson & Company, L. C. Sanger, W. H. Sipe Company, D. S. Thomas, Inc., and Miller's Drug Store.

Magazine Prizes. The *Philomathean Monthly* has at various times offered prizes for contributions, poems, essays, and short stories.

College Endowment

The philanthropic spirit of the constituency of the college has expressed itself during the last two years in numerous and generous gifts to the endowment fund of the institution. The school operated with practically no endowment until the summer of 1917. At this time the trustees launched a campaign which extended until December 31, 1918. On January 13, 1919, a second campaign was started and extended until March 10, 1920, when it was temporarily suspended by action of the Board of Trustees out of deference to the Forward Movement campaign of the Church of the Brethren. This campaign will be renewed in the near future having as its objective a total endowment of a half million dollars.

On May, 1, 1921, when this statement was prepared, the total endowment of the college was approximately \$369,000. The various funds are:

General College Endowment Fund. The principal part of this fund was raised during the spring and summer of 1919. It includes funds raised by five congregations of the Church of the Brethren which will later be designated for the support of chairs in the college. Value, \$156,000.

S. N. McCann Memorial Fund. This fund was raised during the summer of 1917 and dedicated to the memory of Elder Samuel N. McCann, who was an honored alumnus of the college and for many years an esteemed member of the faculty. Value, \$69,000.

S. M. Bowman Fund. This munificent gift was left to the college by the bequest of the late Samuel M. Bowman, for many years a friend and a trustee of the institution, and constitutes the foundation for the departments of agriculture and home economics. His estate is not yet finally settled. Present value, \$132,500.

The E. D. Kendig Fund. This was established in 1918 by Elder E. D. Kendig of Stuarts Draft, Virginia, as partial endowment for a chair of religious education. Value, \$3,000.

Effie L. and Margaret B. Yount Memorial Fund. This fund of one thousand dollars was founded in 1919 by Mr. and Mrs. Samuel

Yount, of Bridgewater, Va., in memory of their deceased daughters, both of whom were alumnæ of the college. The income from this fund is for the benefit of the department of music.

Roy Samuel Smucker Memorial Fund. Founded in 1919 by Mr. and Mrs. C. J. Smucker, of Timberville, Virginia, in memory of their son, Roy Samuel Smucker. Value, \$3,000.

William Long Sanger Memorial Fund. Established in 1919 by Mr. and Mrs. Charles D. Sanger, Sangerville, Virginia, in memory of their son, William Long Sanger. Value, \$2,000.

David Howard Myers Memorial Fund. Founded in 1919 by Mr. and Mrs. W. A. Myers, Broadway, Virginia, in memory of their son, David Howard Meyers. Value, \$1,000.

Sara Katherine Driver Memorial Fund. Founded in 1919 by Elder John F. Driver, Timberville, Virginia, in memory of his wife, Sara Katherine Driver. Value, \$600.

Hattie Susan Good Memorial Fund. Established in 1919 by Mr. and Mrs. D. M. Good, Goods Mill, Virginia, in memory of their daughter, Hattie Susan Good. Value, \$500.

Edith Driver Zigler Memorial Fund. Founded in 1919 by Mr. and Mrs. D. J. Driver, New Market, Virginia, in memory of their daughter, Edith Driver Zigler. Value, \$100.

Expenses

The aim here is to reduce expenses to the minimum and to encourage students in reasonable economy. Many of the supplies used by educational institutions have greatly advanced in price, but the charges to students have not been raised correspondingly. It is hoped it will not be necessary to further increase charges in order to maintain proper standards in equipment and work.

Tuition and Fees

Tuition (B. A. and B. S. Courses), per semester	\$50.00
Matriculation fee, for session or part of session (paid at matriculation in cash)	5.00
Student fee, per semester, paid in cash	5.00
Re-examination fee, paid for each examination	1.00
Chemistry breakage, initial deposit	2.00
Key deposit	1.00
Diploma fee	7.50

Laboratory fees, per semester:

Chemistry	\$5.00 to 10.00
Physics	5.00
Biology	5.00
Geology	3.00
Psychology	3.00
Home Economics (Sewing)	2.50
Home Economics (Cooking)	5.00
Surveying	2.00

Organ, private lessons, per semester:

Two half-hour lessons weekly	18.00
One half-hour lesson weekly	10.00

Piano, private lessons, per semester:

Two half-hour lessons weekly	25.00
One half-hour lesson weekly	13.00

Stringed instruments, private lessons, per semester:

Two half-hour lessons weekly	25.00
One half-hour lesson weekly	13.00

Voice, private lessons, per semester:

Two half-hour lessons weekly	25.00
One half-hour lesson weekly	13.00

Public Speaking, private lessons, per semester:

Two lessons weekly	20.00
One lesson weekly	11.00

Tuition for Special Music Students, per semester:

Singing, each course	5.00
Theory and History of Music, each course	8.00

Room and Board

Computed on the basis of two students in a room, the charge for room, light, heat, and board in the college dining room is from \$88.00 to \$100.00 per semester, depending on the location of the room. Where students wish to room alone an additional charge of \$10.00 is made each semester. No student is assured the privilege of rooming alone as accommodations are limited.

Students are not permitted to board themselves in college buildings; and no student will be permitted to board out of college without the permission of the president.

In case it is necessary for a student to be away from college for two weeks or more at one time the charge for board for this period will be refunded.

Dormitory rooms are supplied with necessary furniture. Beds in the dormitories for women are provided with mattresses; beds in the dormitory for men are not provided with mattresses. These can be purchased in college at cost. Bed linen is furnished; other cover must be supplied by the students. Towels, napkins, window shades and curtains, rugs, electric light bulbs, etc., must also be furnished by students.

The washing of bed linen is included in the room rent. Individual laundry is at the expense of the student.

Students are held responsible for damage to furniture and buildings caused by them. Occasional inspections are made.

Day Students

Lady day students are furnished a room in the White House for study. For this no special charge is made. Young men are assigned day rooms in Wardo Hall, if all rooms are not taken by regular boarding students. A charge of \$6.00 per semester is made for these day rooms.

Day students are invited to use the library for study purposes.

Miscellaneous

Textbooks. The college maintains a book store where all necessary books and student supplies may be purchased at reasonable prices, considering the present cost of books, stationery, etc. *Hereafter, no books or supplies will be charged.*

Ministerial Discount. Ministers attending college are given a discount of 20 per cent on tuition. The children of ministers are given a discount of 10 per cent. As soon as funds are available these discounts will be increased.

Tuition Refund. If a student pursues a subject for three weeks or more there will be no refund of tuition in case the course is discontinued, unless recommended in writing by the college physician and the dean.

Music Practice at Home. A discount of 20 per cent is allowed on the regular tuition fees in piano and organ, if students practice at home instead of in college.

The Student Fee. The student fee covers unlimited medical attention by the college physician, services of the college nurse, except in protracted illness, when another nurse must be provided at the student's expense; but it does not cover the cost of medicine. This fee also provides a year's subscription to *The Philomathean Monthly*, one season ticket to all lyceum programs, membership for the year in a literary society, and the privilege to participate in and attend all athletic games. Within ten days of the opening of the session or semester day students may claim medical attention and use of the infirmary by paying the full student fee. Day students, not desiring medical attention and infirmary privileges, will be charged 70 per cent of this fee or \$3.50 per semester. Where more than one student comes from the same family another slight reduction can be made in this fee.

When Payments Are Due. Payments are due one semester in advance. Proper economical administration of affairs depends upon strict adherence to this rule.

Cash Payments Required. Books and school supplies, the matriculation fee, and the student fee each semester, must be paid for in cash. Bills for tuition, room and board are mailed.

Departments of Instruction

AGRICULTURE

ASSOCIATE PROFESSOR VAN PELT

Agriculture on the Samuel M. Bowman foundation was begun with the session of 1920-21. The present equipment for this work consists of a demonstration farm of about one hundred acres adjoining the campus, a modern barn, horses, dairy herd, hogs, and cattle, as well as indoor laboratory facilities. The equipment and courses of instruction will be increased as demands require.

1-2. *Farm Crops.* This course consists of the study of the more important grain and forage crops. Special emphasis is placed upon the leading crops of this region as regards their production, preparation of seed bed, and methods of improvement. *Three hours, thruout the year.*

3. *Soils.* The relation between soil types and crop production; the effect of different methods of cultivation upon the liberation of plant food; conservation of moisture; origin and physical condition of the soil; fertilization and fertilizers. *Three hours, first semester.*

4. *Farm Management.* Farming as a business, the factors effecting its success, and methods of improving it to obtain the best results. Such factors as buildings, machinery, size of farm, farm layouts, cropping systems, farm accounts, etc., are considered. *Three hours, second semester.*

5. *Dairying.* Different breeds of dairy cattle; selection and care of the herd; factors that influence the quality and quantity of milk produced; milk testing and the principle of the Babcock tester; the construction and operation of the separator, etc. *Three hours, first semester.*

6. *Genetics—Stock Breeding.* Some time is also devoted to plant breeding. Biology 1-2 is recommended as a prerequisite. For description, see department of biology, course 6. *Three hours, second semester.*

7. *Types and Breeds of Farm Animals.* Various types and breeds of farm animals, including poultry; principles underlying breeding and feeding for the best results. *Three hours, first semester.*

8. *Feeds and Feeding.* A careful study of the animal's body and of different feeds; the digestive system and processes of nutrition; the chemical analysis, grades, and feeding value of different feeds; the balanced ration for different classes of stock and poultry. Prerequisite, general chemistry. *Three hours, second semester.*

9. *Agricultural Engineering.* A study of the machinery used on the farm. The construction, adjustment, and operation of farm machinery; farm motors, both steam and gas, with such accessories as lubricator, injector, carburetor, etc. *Three hours, first semester.*

10. *Orcharding.* Conditions necessary for successful orcharding; location; soil conditions; pruning; spraying; different methods of plant propagation. Some time may be given to the vegetable garden; landscaping the farm premises. *Three hours, second semester.*

ANCIENT LANGUAGE

PROFESSOR BICKNELL

Greek

1-2. *First Year Greek.* This course begins with the rudiments of the language, paying careful attention to inflection, grammar and syntax. There is constant drill in writing for the purpose of mastering the forms and principles of Greek construction. White's *First Greek Book* and an introduction to Xenophon's *Anabasis* are prescribed. Selections from the New Testament may be given. *Three hours, thruout the year.*

3-4. *Xenophon.* A study is made of portions of Xenophon's *Anabasis* from which the student will be able to see something of the military methods and skill of the Greeks as well as gain a good introduction to Greek narrative prose. Constant exercises in construction will be given. Goodwin's *Greek Grammar* will be used. *Three hours, thruout the year. (Offered, 1921-22.)*

5-6. *New Testament Exegesis.* This course takes up a study of the four gospels. Outlines are made. The content of the books is studied carefully for the purpose of obtaining more fully the viewpoint of the author. Students will be admitted to this course from 1-2. Burton's *Moods and Tenses* and Green's *Handbook to the Grammar of the Greek Testament* for reference. *Three hours, thruout the year.*

7-8. *New Testament Exegesis.* In this course a study similar to that of the Gospels is made of the Epistles. Constant comparison of the teachings of the Gospels is made with those of the Epistles. *Three hours, thruout the year.*

Latin

1. *Cicero*. In this course a study is made of selected letters of Cicero with the purpose of giving the student some conception of Roman public life. Regular work in composition is required. Bennett's *Latin Composition* and *Latin Grammar* are used thruout the course. *Three hours*, first semester.

2. *Tacitus*. A careful study is made of Tacitus' *Agricola* and *Germania* with a view to gaining an appreciation of Roman literature. Supplementary library work is required. Attention is given to composition and grammar. *Three hours*, second semester.

3. *Virgil*. In this course selected portions of Virgil's *Æneid* are read with a view to obtaining an appreciation of this epic of Roman literature in a way which can not be had through reading of English translations. Practice in scansion is given thruout the course. *Three hours*, first semester.

4. *Horace*. A study is made of the *Odes and Epodes of Horace*, especially from the standpoint of an appreciation of the literature of the Augustan circle of Roman writers. Work in scansion is given thruout the course. *Three hours*, second semester.

BIBLICAL LITERATURE

PROFESSOR FLORY, PRESIDENT BOWMAN

1. *Early Hebrew History*. The course is introduced by a general survey of the history of ancient peoples whose lives and institutions influenced the Hebrews. The Pentateuch and other historical books of the Old Testament are studied with special reference to the early life and institutions of the Hebrew race. This racial history is pursued to the beginning of the national life. *Two hours*, first semester. Required of freshmen.

2. *Later Hebrew History*. The rise of the Hebrew Kingdom under Saul, its expansion under David, its disintegration under Solomon, and its decline and fall under the later kings, are studied in detail. Attention is given to the rise of the Hebrew institutions, especially such as are reflected in their literature. The period of exile is considered at length, and the vicissitudes of the race traced to the time of Christ. *Two hours*, second semester. Required of freshmen.

3. *Hebrew Prophecy*. The course opens with a study of the nature and meaning of prophecy. A general survey is made of the major and minor prophets. Their works are studied in the light of the times

and conditions that brought them forth. The entire body of the Old Testament prophecy is passed under review, and special books are selected for detailed study. *Two hours*, first semester. (Not offered, 1921-22.)

4. *Hebrew Poetry*. The character and form of Hebrew poetry is explained. The course embraces a study of the Psalms, Proverbs, Job, and other groups of the poetical literature of the Hebrews. Special attention is given to the moral, religious, and literary merit of this body of sacred writings. *Two hours*, second semester. (Not offered, 1921-22.)

5. *Synoptic Literature and Gospel of St. John*. A careful analytical study of the Synoptic problem and the historical background of our later New Testament literature. An outline study is made of each of the four gospels. *Three hours*, first semester. Junior and senior elective.

6. *Life and Teaching of Jesus*. The course opens with a general historical survey of the times in which Jesus lived and traces the events of his life. The last half of the course is devoted to the parabolic and social teachings of Jesus. *Three hours*, second semester. Junior and senior elective.

7. *Life and Teaching of St. Paul*. A careful survey of the Roman world and the meaning of Roman citizenship. The work of St. Paul is studied in detail. In the latter part of the semester the course deals with the teaching of the great apostle. *Three hours*, first semester.

8. *Pauline Literature*. A careful study of the writings of the apostle with special emphasis on historical background and the social and religious problems of the day. Attention is given to the content and teachings of each letter. *Three hours*, second semester.

(Note—For related courses refer to department of religious education.)

BIOLOGY

ASSOCIATE PROFESSOR VAN PELT

1-2. *General Biology*. This course gives an introduction to the fundamentals of biology, illustrated by selected animal and plant forms. The more important topics of the course include such subjects as protoplasm, the cell, origin and differentiation of tissues, physiological features of both plants and animals, reproduction, principles governing dis-

tribution, etc. The historical development of the subject, the more important biological theories, and the bearing of biological facts and theories upon human life and human society are treated. Two lectures, 4-6 hours laboratory. *Four hours*, thruout the year.

3. *Botany*. This course is meant to give the student a further introduction to the plant kingdom. General principles are to be considered together with the relation of plants to man. Special attention is given to the flora of the surrounding neighborhood. The application of botany to agriculture is made. A limited number of flowers will be classified. Prerequisite, course 1-2. *Three hours*, first semester. (Not offered, 1921-22.)

4. *Plant Pathology*. This course deals with the diseases of plants, giving the student a thorough training in the identification of diseases and the best methods of eradicating them. Recommended to those interested in agriculture. Wheat rust, cedar rust, corn smut, etc., will be studied. Prerequisite, course 1-2. *Three hours*, second semester. (Not offered, 1921-22.)

5. *Entomology*. This course deals with the life histories and the anatomical structures of insects. It is meant to point out the good as well as the damage done by them. Methods of controlling insect pests will be considered. Prerequisite, course 1-2. *Three hours*, first semester. (Not offered, 1921-22.)

6. *Genetics*. This course deals with general problems in breeding covering the field since the time of the rediscovery of Mendel's Laws. It is intended that this course familiarize the student with plant breeding as well as animal breeding. Laboratory work required. Prerequisite, course 1-2. *Three hours*, second semester.

CHEMISTRY

PROFESSOR STARR

1-2. *General Chemistry*. A systematic study is made of the principles of general chemistry. Stress is laid upon laboratory work and practical applications. No prerequisite in chemistry is required. Required of freshmen. *Four hours*, thruout the year.

3. *Qualitative Analysis*. A laboratory course based upon general chemistry. It consists of practice in the identification of the more common elements and compounds. Prerequisite, course 1-2. This course should be accompanied by course 5. *Two hours*, first semester.

4. *Qualitative Analysis*. A laboratory course based on physical

chemistry. Prerequisite, course 1-2. Should be accompanied by course 6. *Two hours*, second semester.

5. *Advanced General Chemistry*. A lecture course in which a thorough review of the general principles of chemistry is followed by electrical relations in chemistry and of radio activity. Should be accompanied by course 3. Prerequisite, course 1-2. *Two hours*, first semester.

6. *Physical Chemistry*. A lecture course recommended to those who expect to follow any branch of chemistry. Prerequisite, course 1-2. Should be accompanied by course 4. *Two hours*, second semester.

7-8. *Organic Chemistry*. The year is spent on the aliphatic and aromatic series, with some attention to bio-chemistry and synthetic organic chemistry. Prerequisite, course 1-2. *Four hours*, thruout the year.

9. *Agricultural Chemistry*. *Four hours*, first semester. (Not offered, 1921-22.)

10. *Household Chemistry*. *Four hours*, second semester. (Not offered, 1921-22.)

EDUCATION

PROFESSOR SANGER, ASSOCIATE PROFESSOR ZIGLER

1A. *Freshman Orientation*. The function of this course is to assist first-year students in adjusting themselves to college obligations and life-demands. Some of the topics: study methods in detail, using the library, reading, government, the honor system, college and university curricula, the small college, co-education, college traditions and spirit, student finances, vocations, college and community. Individual conferences are arranged. Required of freshmen. *One hour*, first semester.

1. *Principles of Secondary Education*. This course makes a threefold study—(1) the pupil; his physical and mental traits and the individual differences of school children; (2) the secondary school as an institution; the evolution of the secondary school in the United States and in other countries, its articulation with the elementary and with the higher schools and their related problems, the aims and functions of the secondary school; and (3) the curriculum; the place of the various school subjects in the curriculum and the educational values to be derived from them. Textbook: Inglis, *Principles of Secondary Education*. *Three hours*, first semester.

2. *School Administration and Supervision.* Intended primarily for high school principals, the chief considerations of the course are—the function of the junior and senior high school, the staff, course of study, program making, grading, records, management, supervision in grades and high school. Some of the materials will be found in results of recent school surveys. *Three hours, second semester.*

3. *Psychology of High School Subjects.* This attempts to derive methods of teaching in high school from an analysis of the psychological factors involved in the student's response to the subjects of the curriculum. *Three hours, first semester.*

4. *Educational and Mental Tests.* The function, selection, administration and results of educational and mental tests, with practice in both giving and scoring them, and with a criticism of the work already accomplished in this important field, constitutes the essentials of this course. *Three hours, second semester.*

5. *History of Education.* This course undertakes an analysis of the stages in the differentiation of the teaching profession, and discusses the educational systems, which have been advocated and practiced in the leading nations of the past. In studying the present day systems, emphasis is placed upon pointing out the underlying social causes which have provoked changes from the systems of the past. Textbooks: Graves, *History of Education*, in three volumes. *Three hours, first semester.*

6. *School Hygiene.* First a general survey is made of the varied aspects of the hygiene of the school child, communicable diseases, health inspection, the hygiene of instruction, and health of the school teacher. The work concludes with a consideration of the problems of proper construction, ventilation, heating, lighting and general sanitation of the school building. (Meets the requirements in hygiene and health examination of school children as prescribed for teachers in Virginia under the West law.) Textbooks: Terman, *The Hygiene of the School Child*; Terman, *The Teacher's Health*; and Dresslar, *School Hygiene*. Required of graduates expecting to teach in Virginia. *Three hours, second semester.*

7-8. *Observation and Practice Teaching.* The academy located on the college campus serves for observation and practice work in high school subjects. These important activities are under adequate supervision both of the college department of education and the teaching staff of the academy. Frequent conferences and criticisms are provided. *Four hours, thruout the year.*

9-10. *Experimental Education.* Opportunity is given in this course for promising students of education to conduct educational experiments either in the class room or in the laboratory. Hours to be arranged.

ENGLISH

PROFESSOR FLORY, ASSISTANT PROFESSOR CRITZER

1-2. *Composition and Rhetoric.* Beginning with the study of words, phrasing, figures of speech, and the like, a substantial groundwork of style is laid. The work then proceeds to the larger considerations of style and the distinct types of prose discourse. During the first semester there is much practice in sentence structure and paragraph writing, and a detailed study is made of Description as a prose type. In the second semester a careful study is made of Narration and Exposition, and the principles of Argumentation are considered in so far as they have to do with literary construction. Thruout the course there is constant practice in writing and in the analysis and discussion of literary masterpieces. Required of freshmen. *Three hours*, thruout the year.

3-4. *History of English Literature.* The entire ground of English literature is traversed in considerable detail, noting the distinctive characteristics of each period, together with its representative authors. The forms of literature cultivated in each period are pointed out and a comprehensive view taken of each important writer's work. As detailed an acquaintance is made with the work of each writer as time will permit. Taine's *English Literature* is supplemented by lectures and explanations, and extensive reading from literary sources is required. Required of sophomores. *Three hours*, thruout the year.

5. *Victorian Prose—Non-Fiction.* The great masters of prose style are chosen for this study emphasis being given to Macaulay, Carlyle, Ruskin, Matthew Arnold, Huxley, and Herbert Spencer. An effort is made to see our most fully developed prose in the hands of the greatest masters. The characteristics of each author are pointed out, his habits of thought, his manner of expression and his attitude towards the life of his time. The variety and range of interests of each are exhibited in selections from their works. Extensive reading. *Three hours*, first semester. (Not offered, 1921-22.)

6. *American Poetry.* A brief historical study of American literature serves as a background for this course. The leading poets are examined in their relation to one another and the time in which they lived, and the distinctive qualities of their work pointed out. Repre-

sentative poems of each are read and discussed in class, and the class is expected to read a considerable portion of the best work of each poet. *Three hours*, second semester. (Not offered, 1921-22.)

7. *The Shakespearian Drama*. In a historical survey the modern drama is traced from its origin to its decline. The work of the University Wits is examined. Shakespeare's competitors are reviewed, and the signs of decadence are pointed out. Most of the semester's work is devoted to a study of selected plays of Shakespeare. Several are critically read and analyzed in class. Others are assigned for individual reading upon which reports are made to the class. *Three hours*, first semester.

8. *Tennyson—The Representative Poet of the Nineteenth Century*. The works of Tennyson are studied in the light of the time in which he lived. His contribution to the thought of his age, his treatment of the scientific spirit, his interpretation of the social and economic problems of his time are considered. The most important poems, including the *Idylls of the King*, are read and discussed in class. Most of the poetry except the dramas is read by the class. *Three hours*, second semester.

9. *Classicism*. In lecture and class discussions the nature of the classical movement is considered at some length. Its influence on the form of prose and verse, as also the new spirit it gave to the various types of literature are explained. Representative works in prose, poetry and the drama are read and discussed in class, and extensive library reading is required. The literature of the period is considered from the viewpoint of the constructive forces that created it. *Three hours*, first semester.

10. *Romantic Poetry*. The transition from classicism to romanticism is briefly explained. The elements of the romantic movement are pointed out, and traced in the poetry of the period. Attention is given to the forms of poetry, as also to its content, and an effort is made to trace in the poetical utterance of the age the spirit that characterized the life of the time. Class discussion is supplemented by library reading, reports, etc. *Three hours*, second semester.

11. *The Literature of Puritanism*. Puritanism as a factor in English life, influencing the thought, religion, government and literature of the age, is considered. The more important authors and works in prose and poetry are passed under review. But a considerable portion of the semester is given to the study of Milton's major poems. Large parts of these are discussed in class. The characteristic prose of the period is also considered in some detail. *Three hours*, first semester.

12. *Development of the Novel.* The origin of the novel, its relation to other types of fiction, and its distinctive characteristics are reviewed. Its historical development is traced, and its major achievement pointed out. An effort is made to obtain a first hand acquaintance with each of the more important types of fiction, and an estimate is made of books and authors as a guide to future reading. *Three hours*, second semester.

13. *American Prose.* A comprehensive survey of American prose is made to the end of the nineteenth century. Special consideration is given to Irving, Cooper, Poe, the new England group, and the historians. The orators and the humorists are also considered. Attention is called to those features of our literature that are regarded as peculiarly American. The range, scope and variety of our prose is noted as well as its style and the thought habits of its authors. Extensive reading is required. *Three hours*, second semester. (This course alternates with course 12.)

GEOLOGY

PROFESSOR F. J. WRIGHT

1-2. *General Geology.* This course covers in a broad way the field of general geology, including the divisions of dynamic, structural, physiographic, and historical geology. In the laboratory study is made of maps, geological sections, rocks, and minerals. At least a half dozen field excursions are taken to the mountains to the east and west as well as to other points of especial geological importance in the valley. An elementary knowledge of physics and chemistry is necessary. Chamberlin and Salisbury's *College Geology* and other texts of similar grade are used. *Four hours*, thruout the year.

3-4. *General Physiography.* The fundamental principles of physiography are treated in some detail, and an effort is made to thoroughly familiarize the student with the elementary facts involved. The study of land forms and the interpretation of topographic maps are stressed. Laboratory work and readings supplement the lectures. Tarr and Martin's *College Physiography*. *Three hours*, thruout the year.

5-6 *Economic Geology.* A study is made of the principles of geology as applied to mineral deposits. After the foundations for this study have been laid the non-metallic minerals will be taken up, to be followed by the metallic. Among the former, coal, building stone, clay, lime, and cement are most important. The metals of greater concern are iron, copper, lead, zinc, gold, and silver. Ore genesis is especially stressed. Ries and Watson's *Engineering Geology* and Ries's *Economic Geology* are used as texts. *Two hours*, thruout the year. (Not offered, 1921-22.)

7-8 *Physiography of the United States.* A systematic study is made of the physiographic provinces of the United States. Laboratory work and readings constitute a part of the course. General geology or general physiography is presupposed. Bowman's *Forest Physiography*. *Three hours*, thruout the year.

HISTORY

ASSOCIATE PROFESSOR GLICK

1. *Modern Europe.* A brief review of the forces of the renaissance will be made first. Special emphasis is given to such topics as the Protestant revolt, the absolute monarchy, the British Empire, the English Church, the French Revolution, the doctrine of legitimacy, and the results of the industrial revolution in the earlier European states. This study closes with the approach of the remote causes of the World War about 1860. Maps, themes, and library work. *Three hours*, first semester. Required of sophomores.

2. *Recent History.* This course begins with a detailed study of the causes of the great war. The aim is to make clear the political, social, economic and religious conditions on the eve of the war, and the international relations which made possible the great conflict. The events of the war are traced in a general way. The peace treaty and its results in different countries and recent events of significance are reviewed. Current historic topics receive attention. Maps, themes, and library work. *Three hours*, second semester. Required of sophomores.

(Note.—The dominant aim of courses 1 and 2 above is to give the student an appreciation of recent historical currents in the evolution of civilization and to make him conscious of his duties as a citizen in the new world order.)

3. *Ancient History.* A sketch of the nations preceding Greece and Rome with a fuller study of Greece from the earliest times to the Roman conquest, and of Rome from its beginning to the dissolution of the empire. *Three hours*. First semester.

4. *Medieval History.* A general survey is made of the history of medieval Europe. The main topics are: the transition from the ancient to the medieval world, the growth and dissolution of Charlemagne's Empire, the development of the Christian church, the feudal system, the crusades, medieval culture, scholasticism and the renaissance, and the beginning of modern states and civilization. Maps and themes, together with library work are required. *Three hours*, second semester.

5. *American History.* A careful study is made of the development of the American nation from the discovery of America to the close of the Civil War, with special reference to such topics as the influences leading to the discovery of America, colonial life, the revolu-

tion, the confederation and formation of the Union, the growth of parties, the development of State's Rights doctrine, the westward extension of the United States, diplomatic and political relations, moral and social conditions, closing with a study of slavery and the Civil War. Maps and themes, together with library work, are required. *Three hours*, first semester.

6. *American History*. Following the work of the first semester, the later history of the United States is studied with emphasis on the reconstruction period, the growth of civil service reform, the development of the gold standard, financial panics, foreign relations, and internal improvement. A study is made of some of the greater laws affecting the country and its leading statesmen during the period. The influences leading to America's entrance into the World War and the part which the United States played in the contest, with the new world outlook resulting therefrom are given attention. Maps and themes, together with library work, are required. *Three hours*, second semester.

HOME ECONOMICS

ASSISTANT PROFESSOR SEEBERT

In 1920-21 a small beginning was made in home economics on the Samuel M. Bowman foundation. This work will be extended as rapidly as the demand for it is ascertained and facilities can be provided. Later a variety of courses will doubtless be offered.

1. *Sewing and Textiles*. Simple hand and machine sewing, use and alteration of commercial patterns, drafting patterns, making of plain and more difficult garments, darning, patching, buttonholes, study of textiles and adulteration tests. Materials to be furnished by the student. For laboratory fee see expenses elsewhere in this catalog. *Three hours*, first semester. Number of students limited to sixteen.

2. *Foods and Cookery*. The composition, nutritive value, function, and preparation of foods, planning, preparation and serving of meals. The laboratory provides home-like conditions. For fee, see expenses elsewhere in this catalog. *Three hours*, second semester. Number of students limited to sixteen.

MATHEMATICS

PROFESSOR SHULL, MR. THOMPSON

1. *College Algebra*. In this course a study is made of higher algebra, beginning with a review of the fundamental principles, after which a thorough study is made of the principles of higher algebra, as usually treated in college algebra. Hawke's *Advanced Algebra* is used as a text. Required of freshmen. *Three hours*, first semester.

2. *Solid Geometry*. A study of the principles of solid geometry, supplemented by numerous practical problems. Stone-Millis' *Solid Geometry* is used as a text. Required of freshmen. *Three hours*, second semester.

3. *Trigonometry*. A semester's course is given in the principles and applicaiton of plane and spherical trigonometry. Palmer and Leigh's *Plane and Spherical Trigonometry* is used as the text. *Three hours*, first semester.

4. *Surveying*. A study is made of the principles and methods of surveying, with practical application by actual field work. Tracey's *Plane Surveying* is used as the text. *Three hours*, second semester. (For fee, see elsewhere.)

5-6. *Analytics*. The year is devoted to the study of analytic geometry of two and three dimensions. The first semester and the greater portion of the second semester is given to analytic geometry of two dimensions, while the second semester closes with an introduction to analytic geometry of three dimensions. Courses 1, 2 and 3 are prerequisites. Loney's *Coordinate Geometry* is the text used. *Three hours*, thruout the year.

7-8. *Calculus*. This course begins with a brief review of certain features of algebra, while the remainder of the year is devoted to the study of the differential and integral calculus and differential equations. Students who have completed course 5-6, or are taking it, will be admitted to this class. The text is Granville's *The Elements of the Differential and Integral Calculus*. *Three hours*, thruout the year.

9. *Theory of Equations*. A semester will be given to the study of the fundamental properties of algebraic equations, their transformations, and the approximate determination of their roots. Special attention will be given to determinants, symmetric functions, and invariants. Prerequisite course 7-8. Text: Dickson's *Elementary Theory of Equations*. *Three hours*, first semester. (Not offered, 1921-22.)

10. *Differential Equations*. Equations of the first and second orders; linear, with constant and with variable coefficients; hypergeometric series; equations involving more than two variables; partial differential equations of the first and higher orders. Prerequisite course 7-8. Text: Johnson, *A Treatise on Ordinary and Partial Differential Equations*. *Three hours*, second semester. (Not offered, 1921-22.)

MODERN LANGUAGES

PROFESSOR BICKNELL, PROFESSOR FLORY

ASSISTANT PROFESSOR CRITZER

French

1-2 *First Year French.* This course does not necessarily presuppose a previous knowledge of the subject. The work begins with simple exercises and careful attention is given from the first to pronunciation and inflection. Frazer and Squair's *French Grammar*, Part 1, is completed with constant emphasis on written exercises; Merimee's *Colomba*, Dumas' *Monte Cristo*, or similar texts, amounting to about six hundred pages, are read. *Three hours*, thruout the year.

3-4 *Second Year French.* Fraser and Squair's *French Grammar*; Dumas' *La Tulipe Noire*; Labiche and Martin's *Le Voyage de M. Perrichon*, Moilere's *Le Bourgeois Gentilhomme*, and Hugo's *Les Misérables*, or texts of similar grades, are read. Constant exercises in French writing. *Three hours*, thruout the year.

5-6. *Third Year French.* Dumas' *Excursions sur les Bords du Rhin*; Moilere's *L'Avare*; Sandeau's *Mlle. de la Seigliere*; Hugo's *Quatrevingt-treize*, or texts of similar grade, make up the reading for this year. *Three hours*, thruout the year.

German

1-2 *First Year German.* This course may be taken by students without a previous knowledge of German, altho a year of high school work in the subject is a great advantage in taking up this course. Joynes-Wesselhoeft's *Grammar*, Part 1, is completed along with easy reading. Then such stories as *Aus meinen Konigreich*, *Hoher als die Kirche*, *Kinder und Hausmarchen*, *Der Zerbrochene Krug*, etc., making from five to six hundred pages of graded text, are read, along with constant drill in grammar and weekly exercises. *Three hours*, thruout the year.

3-4. *Second Year German.* Joynes-Wesselhoeft's *Grammar* is reviewed and weekly written translations from English to German are given on the basis of Stein's *Exercises*. For reading, story and drama are selected. Stern's *Geschichten vom Rhein*, Keller's *Legenden*, Freytag's *Die Journalisten*, Schiller's *Wilhelm Tell*, and Lessing's *Minna von Barnhelm* are usually prescribed. Priest's *History of German Literature* is required as parallel. *Three hours*, thruout the year.

5-6. *Third Year German.* Joynes-Wesselhoeft's *Grammar* as constant reference, and Stein's *Exercises* for weekly writing are prescribed. During this year the classical drama, specimens of the best German poetry and prose are studied. Schiller's *Maria Stuart* and *Maid*

of Orleans, Goethe's *Hermann und Dorothea*, Scheffel's *Ekkehard*, Heine's *Die Harzreise*, Grilparzer's *Der Arme Spielmann*, Suderman's *Frau Sorge*, or similar texts, are prescribed; also Hosmer's *History of German Literature*. *Three hours*, thruout the year.

7-8. *Scientific German*. This is a course in scientific German, designed especially for those who contemplate taking a medical course or entering the graduate department of a university. Such texts as Gore's *German Science Reader*, Blochmann's *Scientific German*, Dippold's *Scientific German Reader*, and Walter's *Meereshunde* are prescribed. Open to students who have completed Course 3-4 or its equivalent. *Three hours*, thruout the year. (Not offered, 1921-22).

Courses 5-6 and 7-8 are regularly given in alternate years, subject, however, to the demand for the respective courses.

MUSIC

ASSISTANT PROFESSOR ROLLER, MISS BERLIN, MR. HARMON,

Courses in the theory and history of music will be discontinued as soon as practicable. Beginning with the session of 1921-22 students not already matriculated will be received only for such courses in theory and history as may be running. Hereafter major emphasis will be placed upon courses in singing, and private lessons in voice, piano, organ, and stringed instruments.

Music courses are open to special or part-time students who meet the prerequisites set by the department.

Regular college students are charged no special fees for music courses, except private lessons in voice, piano, organ, violin, etc. For these fees and for tuition charges for special music students, see under "Expenses" elsewhere in this catalog.

I. THEORY AND HISTORY

1-2. *Elementary Harmony*. Introducing theory; beginning musical notation, keys, scales, signatures, intervals, harmony begun, chord connection and simple part-writing from given bases or sopranos; chords of the seventh with exercises in harmonizing sopranos and basses in open as well as closed position; modulation begun. Illustrative examples and explanations of chord progressions and modulations required at the piano. *Three hours*, thruout the year.

3-4. *Harmony*. Harmonizing melodies which modulate, no figuring given. Exercises in modulation at the piano, including transposition of various models into all keys. Advanced study in secondary seventh chords. Chromatically altered chords, enharmonic changes, modulation in general; suspension, retardation, appoggiatura, anticipation, passing-tone, embellishment, pedal point, melodic figuration and accompaniment.

The textbook, *Lessons in Harmony*, by Heacox and Lehman. *Three hours*, thruout the year.

5-6. *Harmonic Analysis and Counterpoint*. Harmonic analysis with a review of harmony at the keyboard, the exercises being played instead of written. Textbook, Cutter's *Harmonic Analysis*. About two-thirds of the year is given to simple counterpoint. Textbook, Lehman's *Forty Lessons in Simple Counterpoint*. *Three hours*, thruout the year.

7-8. *General History of Music*. This course covers the entire history of the development of music from the ancient Chinese, Japanese, Babylonian and Greek nations until the present, giving special attention to the music of the Christian era. Textbooks, Tapper and Goetschius' *Essentials in Music* and Pratt's *History of Music*. *Three hours*, thruout the year.

9. *Music Appreciation*. Intended to acquaint the student with musical masterpieces, types of music, schools of music, and musical development that he may be developed in the understanding and appreciation of music. The course is illustrated thruout with a well assorted collection of talking machine records. Assigned readings and study. *Two hours*, first semester; college credit, one semester hour.

II. PIANO

One or two half-hour private lessons and six or twelve hours practice weekly.

1-2. *Piano*. Hand culture; touch; musical notation; studies in reading, rhythm, and expression; scales; Kohler Op. 190 or 157; easy pieces and sonatinas; memorizing. No college credit.

3-4. *Piano*. Scales and chords in all keys; Hanon's *Sixty Exercise, volume I*; Czerny-Liebling's *Selected Studies*; Duvernoy's *School of Mechanism*; sonatinas of Clementi and Kuhlau; easy classics and pieces from modern composers; four-hand music; memorizing. No college credit.

5-6. *Piano*. Scales; arpeggios of all the chords; octave studies; Czerny-Liebling's *Selected Studies*; Bach's *Two and Three Part Inventions*; Heller's *Studies*; studies from Cramer and Clementi; Mendelssohn's *Songs Without Words*; selections from Schumann, MacDowell, Godard and others; accompanying and memory work. No college credit.

7-8. *Piano*. Scales and arpeggios continued. Selections from Beethoven, Mozart, Chopin, Mendelssohn, Rubinstein, Schubert, Liszt, etc., and at least one concerto (selected); sight reading, accompanying and memory work. No college credit.

9-10. *Methods of Teaching Piano.* Technique of piano teaching; individual instruction and supervision in actual teaching. Open to advanced piano students who will teach. *One hour* either semester; no college credit.

III. ORGAN

One or two half-hour private lessons and six or twelve hours practice weekly.

Lessons are provided on the reed organ for those who prefer this instrument. The studies are thoroughly graded and adapted to individual requirements. Progress is conditioned by ability and application. No college credit.

IV. VOICE

One or two half-hour private lessons and three or six hours practice weekly.

The grade of work in voice training and solo singing is adapted to individual needs. No special method is followed; the best from different methods is used as required. Training in the art of singing is essential to ease, quality, power, and hygiene of voice production. Students are advanced as rapidly as their progress will permit. No college credit.

V. SINGING

1-2. *Elements of Singing and Chorus.* This is a general course in the rudiments of music and chorus singing. *Three hours*, thruout the year; no college credit.

3-4. *Advanced Chorus.* Open only to those who have completed Course 1-2 or its equivalent. *Three hours*, thruout the year; total college credit, two semester hours.

5-6. *Ear training and Sight Singing.* *Three hours*, thruout the year; no college credit.

7-8. *Glee Club.* Choruses, cantatas, oratorios, operettas. Open to students from any department of the college with the consent of the director. Weekly rehearsals; public recitals. Students are invited to qualify for membership. No college credit.

9-10. *Public School Music.* Subject matter and methods of presenting music to the upper grades and high school. Each student will teach students under the supervision of the instructor. *Two hours*, second semester; college credit, one semester hour.

VI. STRINGED INSTRUMENTS

One or two half-hour private lessons and six or twelve hours practice weekly.

Individual instruction is provided in violin, mandolin, guitar, banjo, and harp. The work may cover a number of years. Both beginners and advanced students are taken. No college credit.

PHILOSOPHY

PRESIDENT BOWMAN, PROFESSOR SANGER

1. *Introduction to Philosophy.* The aim of this course is to set for the student the fundamental philosophical problems. A study is made of the origin and development of philosophical concepts such as Epistemology, Ontology, Aesthetics, Ethics, and Sociology. A study is also made of the various philosophical theories. Jerusalem's *Introduction to Philosophy* will be the basis of the course, but constant reference will be made to other standard works. *Three hours, first semester.*

2. *Logic.* A careful study is made of formal logic as it relates to clear thinking. The syllogism, inductive methods and the nature of thought are the prominent topics of study. Papers on assigned topics will be required of students, and themes will be subjected to class criticism. *Three hours, second semester.*

3. *Ethics.* The course opens with a brief history of ethical theory and continues with a study of the evolution of morality, the theory of morality, personal and social morality. Drake's *Problems of Conduct* is used as a text, but extensive readings is required from other standard authors. Lectures, recitations, and discussions. *Three hours, first semester.*

4. *Systematic Theology.* A study of the great doctrines of Christian faith. The subject of religion, the doctrines of God, Man, Sin, Christ, and the Christian Life constitute some of the subjects which the course considers. *Three hours, second semester.*

5. *History of Ancient Philosophy.* This course traces the development of philosophical thought from Thales up to the mediæval period. Special study is made of the contributions of Plato and Aristotle and of the relation of Greek thought to modern culture and science. Instruction is given mainly by the lecture method supplemented by careful and extensive reading. *Three hours, first semester.*

6. *History of Mediaeval and Modern Philosophy.* This course traces the development of philosophical thought from the fifth century up to the present time. The great systems of thought are studied in some

detail, and attention is given to the life and character of the great thinkers of the period. Extensive reading and frequent reports are required of students. *Three hours*, second semester.

PHYSICAL EDUCATION

EDGAR S. KIRACOFÉ, *Physical Director and Coach*; DR. JOHN D. MILLER, *College Physician and Instructor in Hygiene*.

GENERAL

This department has supervision and direction of all forms of physical education and personal hygiene. It is organized to give such instruction and training as experience has shown to be necessary to meet the demands of health and physical vigor required today. Courses giving hygienic, recreative, corrective, and competitive forms of exercise are offered in regularly organized classes and in team training.

The highest standards and ideals of athletic sports are coached in all teams; under no circumstances will unfair or unsportsman-like conduct or tactics be tolerated. For detailed athletic regulations, see elsewhere in this catalog.

Students are encouraged to win positions on college baseball, track, basketball, or tennis teams. Those who secure places on any of these squads will receive credit for regular gymnasium work for the season the team is playing.

The athletic equipment of the college consists of a large gymnasium, an adequate athletic field, six well-kept tennis courts, several volley ball courts, an outdoor basketball court, and an indoor baseball diamond.

Each student on entering college is given a physical examination to determine the physical exercise required in the light of his health needs.

Excepting seniors, physical education is required of all students, unless excused by the college physician and the dean acting jointly.

WOMEN

Resident students, unless excused, are required to take a minimum of five hours exercise weekly, consisting of gymnastics, outdoor sports, and walking.

Basketball, baseball, volley ball, and tennis are arranged for by the Athletic Association, of which all students are members. The physical director serves as coach.

The regulation suit for gymnasium work consists of an all white middy, black bloomers, black hose, and white or black rubber soled shoes.

2A. *Personal Hygiene.* This work in personal hygiene and preventive medicine is offered by the college physician. Required of freshmen. *One hour, second semester.*

1-2. *Physical Education.* Free standing exercises, facing, line and file marching, games, and simple rhythmic work. Special emphasis is laid upon exercises which develop muscles for correct posture. *Three hours, thruout the year.*

3-4. *Physical Education.* Advanced Swedish gymnastics with and without apparatus. Difficult forms of marching, wheeling, marching by fours, figure marching, rhythmic work, and games. *Three hours, thruout the year.*

5-6. *Organized Sports.* Basketball, volley ball, baseball, tennis, and field athletics are open to physically qualified students. These sports may be followed in lieu of regular gymnastics. Hours to be arranged.

Work at the close of the different seasons will culminate in inter-class contests, marching demonstrations, rhythmic work, and outdoor sports.

MEN

Regulation clothing for the gymnasium consists of a white sleeveless shirt, white running pants, stockings, and soft soled shoes. No shoes with leather soles will be allowed on the gymnasium floor.

2A. *Personal Hygiene.* This is offered by the college physician and covers some of the principles of preventive medicine as well as personal hygiene. Required of freshmen. *One hour, second semester.*

1-2. *Physical Education.* Simple marching, calisthenics, tumbling, gymnastics, apparatus work, and games. *Three hours, thruout the year.*

3-4. *Physical Education.* Advanced work in American and Swedish system of calisthenics, marching, tumbling, gymnastics, swimming (each student required to swim at least one hundred feet), apparatus work, and games. *Three hours, thruout the year.*

5-6. *Organized Sports.* Tennis, track, basketball, and baseball may be followed in lieu of gymnastics by physically qualified students. Teams practice in season one and one-half hours daily. Hours scheduled by the coaches.

PHYSICS

PROFESSOR SHULL, MR. HARSHBARGER

1-2. *General Physics*. This course requires a good working knowledge of Algebra, Plane and Solid Geometry, and Trigonometry. A careful graded course of experiments must be performed by each student. Preparatory physics is prerequisite. Kimball's *College Physics*; Ames and Bliss' *Manual of Experiments*. Four hours, throuout the year.

3-4. *Sound and Light*. The year is devoted to a careful study of Sound and Light. The greater portion of the first semester is devoted to Sound, while the remainder of the year is given to the study of Light. Students will not be admitted to this class unless they have had Analytics. Suitable texts will be announced when the class is organized. Four hours, throuout the year. (Not offered, 1921-22).

PSYCHOLOGY

PROFESSOR SANGER, ASSOCIATE PROFESSOR ZIGLER

1. *General Psychology*. This course studies the mind of the normal human adult and is based in the main upon the facts revealed by scientific experimentation. After a preliminary but extended study of the neurological basis of psychology, it attempts to determine the subject matter, problems and method that a scientific psychology must face. It considers the varied aspects of the elementary processes of sensation, image, affection, and attention; then, passes to the more complex processes of mind by way of perception, association, memory, action, emotion, and thought. Textbook: Titchener, *Textbook of Psychology*. Three hours, first semester.

2. *Experimental Psychology*. This course is a natural supplement to Course 1, and aims primarily to teach the student to introspect upon his own mental processes; thus, it makes concrete and practical certain of the theoretical considerations of Course 1. The student masters at an elementary level the technique and conditions of psychological experimentation of the qualitative sort. Several experiments are also performed to demonstrate the principles of operation of the more basal quantitative methods. Textbook: Titchener, *Student's Qualitative Manual*. Three hours, second semester.

3. *Animal Learning*. This course first attempts to determine the sensory capacities and motor reactions of representative members of the various classes of invertebrates and vertebrates, and secondly describes the ability of these organisms to modify their behavior. The work is based on texts and monographic reports of scientific experimentation with

such life forms as: unicellular organisms, fish, spiders, wasps, ants, bees, birds, and such mammals as the dog, the horse, and the monkey. Textbook: Washburn, *The Animal Mind*, and references to studies of Jennings, Holmes, Loeb, Watson, Thorndike, Wheeler, Porter and others. *Three hours*, first semester.

4. *Human Learning*. This course follows Course 3 in natural sequence. It first considers the original nature of man in brief compass. Then learning is studied; first, as to ability of modification of motor reactions and the acquisition of skill, (learning at the level of the vertebrates of Course 3); and secondly, as to the distinctly human capacity of rational selection and improvement on the basis of ideational endowment. The student is given first hand acquaintance with classic studies of learning experimentation. Textbooks: Colvin, *The Learning Process*, and Meumann, *The Psychology of Learning*. *Three hours*, second semester.

5. *Physiological Psychology*. A detailed theoretical study of the nervous system, endocrine organs, and the organs of special sense is made and the psychological implications and problems arising therefrom are deduced. The fact that experimental psychology evolved from experimental sense-physiology makes this study interesting both in its historic setting and in its rather comprehensive and complete development. Textbook: Ladd and Woodworth, *Elements of Physiological Psychology*, and references to such texts as Howell and Schafer. *Three hours*, first semester.

6. *Abnormal Psychology*. A survey of the various types of mental defects, disorders and derangements is here undertaken. Certain physiological defects discussed in Course 5 form the basis of study of such mental defects as aphasia, deaf-blind, etc. The temporary disorders of dreams, hypnosis, multiple personality, and the more permanent disorder of hysteria are studied. Finally, the various types of derangement are described in some detail. There is no comprehensive text for the course. Assignments and lectures during the earlier work; for the study of insanity White's *Outlines of Psychiatry* is used. *Three hours*, second semester.

7. *Social Psychology*. Man's social behavior is the subject of this course. Custom, imitation, fads, public opinion, leadership, mobs, crowds, morale, war, conflict, and compromise are some of the topics considered at length. *Three hours*, first semester.

8. *Genetic Psychology*. With a brief account of the genetic background involved, this course deals mainly with the physical growth, motor demands, and stages of mental development of childhood and youth. Educational, social, religious, hygienic applications are made thruout. Norsworthy and Whitley, *Psychology of Childhood*, and Hall,

Youth, are the texts used, with frequent reference to the literature of the field. *Three hours*, second semester.

9-10. *Minor Problems*. Students, who do well in Course 2 and who manifest an ambition to attack some problem with prospect of publication, are given personal attention and direction along the line of their problem. Hours to be arranged.

PUBLIC SPEAKING

ASSOCIATE PROFESSOR GLICK

1. *Public Speaking*. A study is made of certain essentials of public speaking with reference to reading, vocal culture, tone production, vocal power, flexibility, distinct articulation, phrasing, poise, emphasis and cadence. *Two hours*, first semester.

2. *Public Speaking*. The first material for this course in oral composition is found in the analysis and presentation of great speeches. Original oral composition is then studied. The presentation of current and other topics is based upon written outlines. Due attention is given to speech as influenced by occasion, gesture, poise, action, etc. *Two hours*, second semester.

3-4. *Public Speaking*. Private Lessons.—A limited number of private students will be taken by Miss Dean and Professor Glick. For special fee, see elsewhere in this catalog. Credit of one hour may be allowed for this work upon the approval of the dean.

5. *Expository and Argumentative Speech*. An analysis of public questions is made with emphasis upon the accumulation of evidence, and on the nature, kinds, and tests of evidence. Drill is provided in cross discussion, refutation, preparation and presentation of class debates. Logic is recommended as a prerequisite. *Three hours*, first semester. (Not offered, 1921-22).

6. *Argumentation and Debate*. A continuation of Course 5. Briefs, careful preparation of formal debates on social, economic, political, educational questions; some of these will be delivered and criticized in class, others may be delivered in public. Training is given in presentation. Prerequisite, Course 5. *Three hours*, second semester. (Not offered, 1921-22).

RELIGIOUS EDUCATION

PRESIDENT BOWMAN, ASSOCIATE PROFESSOR MILLER

ASSOCIATE PROFESSOR GLICK

Even among those who do not specialize in religious education and related subjects, this work is highly esteemed. Post-war demands have put a new responsibility upon constructive citizenship. There is moreover an unanswered call from every quarter for religious experts and leaders.

The courses of this department are correlated with the departments of biblical literature, psychology, education, history, social science, and philosophy.

The various department of the college church, the Young Men's and Young Women's Christian Association, the Student Volunteers, the literary societies, and the diversified interests and needs of the college community together furnish ample laboratory facilities to students of the department of religious education. Each professor of the department is identified with several activities requiring student help and providing generous practical experience in these fields.

1. *Introduction to Moral and Religious Education.* The necessity of religion as a factor in preserving the moral fiber of the race, the theory of religious education, institutions which have promoted moral and religious education, religious education in a democracy, problems and methods of building a national system of religious education—these are among the topics of this course. *Three hours, first semester.*

2. *Organization and Administration of Religious Education.* This course will deal with the practical problems concerning the organization and management of a school in a local church, including curriculum, teacher training, supervision, recruiting, etc. *Three hours, second semester.*

3-4. *Principles of Moral and Religious Education.* A study of the psychological, sociological, and philosophical problems which underlie a sound theory of moral and religious education. *Three hours, thruout the year.*

5. *The Children's Division of the Church School.* A course dealing with the methodology of the Kindergarten, Primary, and Junior department of the Church School. Department organization, equipment, material to be handled and methods of procedure, will be considered for each of these departments. The following practical topics will be discussed: Worship, stories and story telling, music and art, expressional

activities including note book and hand work, program building. *Three hours, first semester.*

6. *The Young People's Division of the Church School.* This course will consider the problems and needs of pupils from 12 to 24 years of age. The organization and management, curriculum, worship and methods of teaching for the Intermediate, Senior, and Young People's departments will be studied. The course will deal with the impressional and expressional activities of youth, physically, mentally, socially, and religiously. Special emphasis will be given to the training of youth as future leaders. *Three hours, second semester.*

7. *Social Statistics and the Survey.* Statistical principles and methods governing the collection, interpretation, and visualization of statistical data gathered by means of the survey. Special attention will be given to gathering data that will be valuable in organizing a social or religious program. The application of the principles is required through laboratory exercises. *Three hours, second semester.*

8. *Recent Church History.* With an adequate historical background laid first this course deals with the church since the Reformation, the development of missions, the doctrines of the church, the growth and influence of denominations, the separation of church and state, the development of the church during the nineteenth and twentieth centuries, and the organization, government, distinctive doctrines, and various educational, missionary, and publication interests of the Church of the Brethren. *Three hours, second semester.*

9. *Comparative Religion.* This course deals with non-Christian civilizations with special reference to their religious institutions and theological ideas. The religions of India and China are studied in detail. *Three hours, first semester.*

10. *Protestant Missions.* The course traces the forces which led to the missionary awakening of the Christian Church after the beginning of the Protestant movement. The problems, principles, and methods of Christian missions are studied. A survey is made of Christian missions in India, China, and Japan. *Three hours, second semester.*

11. *Homiletics.* A rapid and extensive study of the life and habits of the preacher introduces the course. Attention is given to the biography of famous preachers. The main part of the course deals with

the preparation and delivery of the sermon and the psychology of preaching. *Three hours*, first semester.

12. *Pastoral Theology*. This course studies the practical problems of the minister and of church and community life. The principles of church government and administration, finance, records, organization, etc., are considered in the course. *Three hours*, second semester.

SOCIAL SCIENCE

PROFESSOR C. C. WRIGHT

1. *Introduction to Economics*. This course aims to give the student a grasp of the fundamental principles underlying modern economic life, and to train him to think clearly on economic subjects. *Three hours*, first semester.

2. *Money and Banking*. The object of this course is to give the student the history and theory of money and banking, with especial reference to the development of the monetary and banking system of the United States. Prerequisite: Course 1. *Three hours*, second semester. (This course is given every other year, alternating with Course 4. Not offered, 1921-22).

4. *Labor Problems*. This course is a study of some of the evils that have developed as a result of the wage system, and the remedies that have been proposed. Child and woman labor, the sweating system, strikes, boycotts, labor organizations, labor legislation, conciliation and arbitration, social insurance, profit sharing and co-operation, and socialism will be studied and discussed. Prerequisite: Course 1. *Three hours*, second semester. (This course alternates with Course 2. Offered, 1921-22).

5-6. *Political Science*. In this course a study is made of the structure and organization of the government of the United States and of the government of the several states, together with an examination of the party system, its growth and development, and its effects upon the actual operations of the government. Following this, some of the modern forms of city government will be discussed. *Three hours*, throughout the year. (This course is given every other year, alternating with Courses 7 and 8. Offered, 1921-22).

7. *An Introduction to the Study of Society*. The object of this course is to acquaint the student with a considerable number of social

phenomena and to help him develop a working theory of the nature of society. *Three hours*, first semester. (This course alternates with Courses 5-6. Not offered, 1921-22).

8. *Rural Sociology*. This is a study of country life aiming to develop in the student the proper appreciation of the problems of the rural community, and to arouse in him an active interest in all constructive organization for improvement. The importance of agriculture, transportation, the economics of farm life, tenancy, wages and labor, improvement of farm homes and health, rural religion, education and recreation are some of the subjects that will be discussed. Prerequisite: Courses 1 and 7. *Three hours*, second semester. (This course, together with Course 7, alternates with Courses 5-6. Not offered, 1921-22).

Degrees Conferred June 2, 1920

HONOR GRADUATES

Bachelor of Arts

Homer Christian Will	Dayton, Va.
Warren Daniel Bowman	Dayton, Va.

GRADUATES

Bachelor of Arts

Iva May Bowman	Harrisonburg, Va.
Martha Miriam Bowman	Johnson City, Tenn.
Frances Marie Dovel	Harrisonburg, Va.
Fleta Magdaline Fifer	Wyoming, Del.
Mattie Virginia Glick	Dayton, Va.
Amos S. A. Holsinger	Bridgewater, Va.
Earl Chester Holsinger	Broadway, Va.
Edwin DeWitt Miller	Bridgewater, Va.
Mary Olivia Miller	Mt. Sidney, Va.
Grant Tyler Moyers	Mathias, W. Va.
Anna Laura White	Jonesboro, Tenn.

Bachelor of Science

Waldo Briggs Moyers	Mathias, W. Va.
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College Registration, 1920-21

Senior Class

Arnold, Bessie Wright	Burlington, Va.
Clark, Oscar Clyde	Spring Creek, Va.
Clarke, Roy English	Jonesboro, Tenn.
Cline, Ethel Mae	Weyers Cave, Va.
Cool, Claude Philip	Wyoming, Del.
Driver, Anna Catherine	Timberville, Va.
Flory, Anna Florence	Staunton, R. No. 3, Va.
Glick, Joseph Paul	Bridgewater, Va.
Harlow, George William	Bridgewater, Va.
Kerlin, Ollie Virginia	Bridgewater, Va.
Kiracofe, Edgar Stuart	Mt. Solon, Va.

Kline, Agnes Virginia	Broadway, Va.
Kramer, John David	Monterey, Va.
Miller, Joseph Quinter	Mt. Sidney, Va.
Roller, John Michael	Timberville, Va.
Wampler, Olive Mae	Mt. Sidney, Va.

Junior Class

Bowman, H. C. Early	Johnson City, Tenn.
Burns, William Loris	Bridgewater, Va.
Carter, Ada Kathryn	Selma, Va.
Click, George Shreckhise	Mt. Sidney, Va.
Cline, Grace Edith	Weyers Cave, Va.
Cline, May Lois	Weyers Cave, Va.
Cline, Pearle Virginia	Weyers Cave, Va.
Cline, Ruth Irene	Weyers Cave, Va.
Conner, Lola Anna	Manassas, Va.
Conner, Mildred Lovina	Manassas, Va.
Cool, Raymond Dean	Bridgewater, Va.
Craun, Ernest Brown	Bridgewater, Va.
Early, Olive Frances	Harrisonburg, Va.
Evers, Manola Florence	Bridgewater, Va.
Flory, Weldon Isaac	Stuarts Draft, Va.
Harshbarger, Jacob Charles	Port Republic, Va.
Hinegardner, Wilbie S.	Midland, Va.
Hooker, May	Nokesville, Va.
Humbert, Reuben Lee	Broadway, Va.
Miller, LeRoy Cupp	Dayton, Va.
Miller, Lula Alice	Bridgewater, Va.
Miller, Mary Virginia	Bridgewater, Va.
Miller, Olive Pearle	Dayton, Va.
Myers, Hettye Elizabeth	Edom, Va.
Pence, Mabel Louise	Limestone, Tenn.
Sanger, Paul Bowman	Bridgewater, Va.
Showalter, Mary Etta	Port Republic, Va.
Thompson, Henry Dewey	Mint Spring, Va.
Wampler, Hattie Beatrice	Penn Laird, Va.
West, Russell Green	Stuart, Va.
Williar, Frank Echer	Bridgewater, Va.
Zigler, Howard Samuel	Broadway, Va.

Sophomore Class

Bennett, Jacob Mayne	Brandywine, W. Va.
Bowman, Kathryn	Jonesboro, Tenn.
Bowman, Oscar Franklin	Harrisonburg, Va.
Bowman, Raymond P. G.	Harrisonburg, Va.
Bowman, Rufus David	Dayton, Va.
Clark, Mary Alberta	Spring Creek, Va.
Cline, Anna Florence	Mt. Sidney, Va.
Cline, Patience Bertha	Mt. Crawford, Va.

Craun, Eva Margaret	Bridgewater, Va.
Craun, Marion Jefferson	Weyers Cave, Va.
Diehl, Paul Russell	Penn Laird, Va.
Early, Effie Virginia	Rockingham, Va.
Edmonson, William Harry	Woodstock, Va.
Flory, Earle Daniel	Staunton, R. No. 3, Va.
Francis, Willard Zug	Lebanon, Pa.
Funkhouser, Ethel Lee	Winchester, Va.
Funkhouser, Ozias Tifaney	Winchester, Va.
Garber, Mary Elizabeth	Harrisonburg, Va.
Garber, Wilbur Franklin	Bridgewater, Va.
Harley, Nora Susannah	Manassas, Va.
Hess, Homer Clifton	Bridgewater, Va.
Huffman, Elmer Lewis	Churchville, Va.
Kiser, Justus Samuel	Bridgewater, Va.
Kline, Wilmer Miller	Manassas, Va.
Lohr, Rosa Mae	Brightwood, Va.
Miller, Benjamin Orville	Bridgewater, Va.
Rodeffer, Charles Cephas	North River, Va.
Rodeffer, Ina Belle	Bridgewater, Va.
Roller, Mark Samuel	Timberville, Va.
Sharpes, Lowell Victor	Harrisonburg, Va.
Showalter, Glenna Marie	Stuarts Draft, Va.
Spitler, Boyd Alexander	Spring Creek, Va.
Thomas, Ethel Mae	Bruceton Mills, W. Va.
Wampler, Fleta Mabel	Port Republic, Va.
Will, Fannie Ruth	Dayton, Va.
Will, Harper Saylor	Dayton, Va.
Yagel, Cameron Gailen	Belmont, Va.

Freshman Class

Bennett, Isaac Lee	Zigler, W. Va.
Blough, Leslie Emanuel	Manassas, Va.
Boggs, Laura Elizabeth	Dayton, Va.
Burger, James Quinter	Howe, Ind
Click, Carrie Frances	Bridgewater, Va.
Clore, Aubrey Jackson	Brightwood, Va.
Cool, Ernest Martin	Wyoming, Del.
Cox, Marie Theresa	Bridgewater, Va.
Driver, Frank Shreckhise	Mt. Sidney, Va.
Fifer, Carson Lee	Wyoming, Del.
Fifer, Jesse Showalter	Wyoming, Del.
Flory, Samuel Isaac	Staunton, R. No. 2, Va.
Flory, Virginia	Bridgewater, Va.
Garber, Orval Samuel	Bridgewater, Va.
Garst, Herbert Samuel	Bridgewater, Va.
Good, Benjamin Franklin	Bridgewater, Va.

Grove, Frank Coiner	Fishersville, Va.
Hildebrand, Bloomfield	Basic, Va.
Holsinger, Hubert Burner	McGaheysville, Va.
Hoover, Saylor Cornelius	Timberville, Va.
Hoover, Violette Elizabeth	Timberville, Va.
Horn, Herman L.	Mt. Solon, Va.
Huffman, Nelson Thomas	Bridgewater, Va.
Humbert, Willard Harrison	Broadway, Va.
Jamison, Stella Elizabeth	Boone Mill, Va.
Kendrick, Irva Cool	Harrisonburg, Va.
Kiracofe, Ira James	Bridgewater, Va.
Kiracofe, Otis Roy	Spring Creek, Va.
Kline, Alvin Taylor	Manassas, Va.
Kline, Paul G.	Broadway, Va.
Landis, Michael Clifford	Dayton, Va.
Long, Holbert Hampden	Bridgewater, Va.
Maupin, Lottie Viola	Free Union, Va.
May, Clarence Edward	Weyers Cave, Va.
Meyerhoeffer, Ward Andes	Bridgewater, Va.
Miller, Clyde DeWitte	Grottoes, Va.
Miller, Janie Dinkle	Bridgewater, Va.
Miller, Robert Earl	Oakton, Va.
Miller, Ruth Frances	Dayton, Va.
Miller, Ruth Virginia	Bridgewater, Va.
Ruckman, Nettie Lee	Mt. Crawford, Va.
Sanger, Isaac Jacob	Bridgewater, Va.
Sanger, Lillie Rebecca	Bridgewater, Va.
Showalter, Russell Kemper	North River, Va.
Shull, Harry Edward	Bridgewater, Va.
Wright, Vernie Virginia	Mt. Crawford, Va.
Zigler, Naomi Ruth	Broadway, Va.

Special Students

Cole, Virginia Garber	Bridgewater, Va.
Kramer, Dewey Newton	Monterey, Va.

Instrumental Music

Clark, Mary Alberta.....	Spring Creek, Va.
Cline, Anna Florence.....	Mt. Sidney, Va.
Cline, Ruth Irene.....	Weyers Cave, Va.
Cole, Virginia Garber.....	Bridgewater, Va.
Cunningham, Mabyll K.....	Purgitsville, W. Va.
Cunningham, Winona Pearl.....	Purgitsville, W. Va.
Dean, Anna Mary.....	Williamsport, Penna.
Driver, Frank Shreckhise.....	Mt. Sidney, Va.
Eutsler, Laura Elizabeth.....	Bridgewater, Va.
Flory, Virginia.....	Bridgewater, Va.
Flory, Weldon Isaac.....	Stuarts Draft, Va.
Haun, Mrs. Gladys.....	Bridgewater, Va.

Hildebrand, Bloomfield.....	Basic, Va.
Huffman, Nelson Thomas.....	Bridgewater, Va.
Miller, Mrs. A. B.....	Bridgewater, Va.
Miller, Clyde DeWitte.....	Grottoes, Va.
Miller, Edna Mc.....	Bridgewater, Va.
Miller, Janie Dinkle.....	Bridgewater, Va.
Miller, Lewis Virgil.....	Bridgewater, Va.
Miller, Mattie Alice.....	Bridgewater, Va.
Myers, Hettye Elizabeth.....	Edom, Va.
Showalter, Glenna Marie.....	Stuarts Draft, Va.
Shumaker, Rosanell.....	Purgitsville, W. Va.
Sipe, Minnie Laura.....	Bridgewater, Va.
Thomas, Ethel Mae.....	Bruceton Mills, W. Va.
White, Garold.....	Mossy Creek, Va.
Whitmere, Nellie Marie.....	Mt. Jackson, Va.
Zigler, Naomi Ruth.....	Broadway, Va.

Voice

Blough, Leslie Emanuel.....	Manassas, Va.
Bowman, Raymond P. G.....	Harrisonburg, Va.
Cole, Virginia Garber.....	Bridgewater, Va.
Cunningham, Mabyl K.....	Purgitsville, W. Va.
Cunningham, Winona Pearl.....	Purgitsville, W. Va.
Edmonson, William Harry.....	Woodstock, Va.
Garber, Evelyn F.....	Bridgewater, Va.
Garber, Mary M.....	Bridgewater, Va.
Hildebrand, Bloomfield.....	Basic, Va.
Huffman, Lester William.....	Bridgewater, Va.
Huffman, Nelson Thomas.....	Bridgewater, Va.
Kline, Wilmer Miller.....	Manassas, Va.
Miller, Janie Dinkle.....	Bridgewater, Va.
Miller, Joseph Quinter.....	Mt. Sidney, Va.
Miller, Walter Lee.....	Bridgewater, Va.
Roller, John Michael.....	Timberville, Va.
Sharpes, Lowell Victor.....	Harrisonburg, Va.
Showalter, Glenna Marie.....	Stuarts Draft, Va.
Shumaker, Rosanell.....	Purgitsville, Va.
Whitmere, Nellie Marie.....	Mt. Jackson, Va.

Art

Cline, Grace Edith.....	Weyers Cave, Va.
Cline, May Lois.....	Weyers Cave, Va.
Cline, Pearle Virginia.....	Weyers Cave, Va.
Cline, Ruth Irene.....	Weyers Cave, Va.
Conner, Lola Anna.....	Manassas, Va.
Hinegardner, Wilbie S.....	Midland, Va.

Hooker, May.....	Nokesville, Va.
Miller, Edna Grace.....	Bridgewater, Va.
Miller, Ruth Virginia.....	Bridgewater, Va.
Pence, Elizabeth Flora.....	North River, Va.

Enrollment Summary, 1920-21

College (women).....	55
College (men).....	77
Special Students.....	2
Music Students.....	18
Irregular Music Students.....	26
Art Students.....	2
Irregular Art Students.....	8
Total college, music, art enrollment, duplicates eliminated.....	155
Total academy enrollment, see academy catalog.....	79

Enrollment by Subjects

	First Semester	Second Semester		First Semester	Second Semester
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Art	9	8	Mathematics	64	55
Biblical Literature....	55	65	Music	41	37
Biology	21	21	Philosophy	12	..
Chemistry	60	53	Physical Education...	85	87
Education	50	24	Physics	6	6
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French	72	79	Public Speaking....	8	9
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