CATALOGUE

OF

WASHINGTON COLLEGE,

VIRGINIA.

69-70

SESSION 1870—'71.

CATALOGUE

OF

WASHINGTON COLLEGE,

VIRGINIA,

FOR THE

COLLEGIATE YEAR ENDING JUNE, 1870.

PUBLISHED BY ORDER OF BOARD OF TRUSTEES.

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1870.

ORGANIZATION OF WASHINGTON COLLEGE.

In the organization of this College, the Trustees have endeavored to combine the best features of the old curriculum with the best features of the modern elective system. While providing fully for all the departments of education, and allowing perfect freedom of election among them, they have sought, at the same time, to encourage consistent and complete courses of study in definite directions. All the details of the organization have been carefully adapted to this object.

1. *Schools and Classes.*

The College is divided into a number of distinct Schools, each complete in itself, yet all under common control, and held together in definite relations with reference to certain fixed courses of study. Among these Schools, or distinct courses, the student is free to make his own election, yet within each School there is a fixed gradation of classes. The student is admitted only into such classes as he is prepared to enter, and in each he is compelled to complete a prescribed course of study before being promoted to a higher. Each class is taught carefully according to its own grade—the lower classes being divided into small sections for more thorough instruction. The grades in the several classes, as well as the Certificates conferred in the several Schools, or distinct subjects, are all based upon the requirement of a prescribed course of study, together with rigorous final examinations, daily progress also entering largely into the result. Thus, in each School and throughout all the classes, students, even when not candidates for Degrees, are required to pursue a pre-

scribed course, and Certificates of Proficiency are conferred only upon the satisfactory completion of such a course.

2. *Degrees and Honours.*

The system of Degrees is designed especially for the encouragement of systematic study in voluntary yet definite directions. The Degrees of BACHELOR OF ARTS, BACHELOR OF SCIENCE, and BACHELOR OF PHILOSOPHY, addressed severally to the three principal classes of students, are all founded upon a combination of prescribed requirements with elective studies, and are so adapted as to encourage the largest possible number of students to their attainment. The Degree of MASTER OF ARTS, the highest honor conferred by the College, is founded on the same principles, and is open to all the students. In all these Degrees, as well as in the Professional Degrees of CIVIL ENGINEER, MINING ENGINEER, and BACHELOR OF LAW, fixed standards of attainment are required upon the entire course of study included within them. The system of College Honors, Medals, Orations, &c., is also carefully adapted to ensure completeness of study in prescribed directions, as well as the widest general culture.

Under this combination of influences and advantages, it is believed that the greatest practicable encouragement is offered to every student for pursuing a consistent and complete course of study, at least in some definite direction, according to his own capacities and choice, and that at the same time, under the freedom of the elective system, there will be attained the fullest development of the several Schools, and the greatest thoroughness of instruction and scholarship in each.

This organization is at once flexible and expansive. The Trustees have already been able to add to the College, beyond the usual limits of the curriculum, the Schools of APPLIED MATHEMATICS, including ENGINEERING; APPLIED CHEMISTRY; MODERN LANGUAGES; HISTORY; and the ENGLISH LANGUAGE and LITERATURE; and also, for temporary purposes, a PREPARATORY DEPARTMENT. To these Schools yet others will soon be

added, and each will find its place in the system without disturbing the rest. It is, therefore, legitimately within the purposes of the Trustees, under this organization, to extend the College to its highest possible development, and to make its advantages equal to all the progressive demands of the age in every department of education.

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Rev. Horatio Thompson, D. D.,	Rockbridge co.,	Feb'y 22, 1841.
Rev. Benjamin M. Smith, D. D.,	Prince Edward co.,	June 30, 1842.
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William McLaughlin,	Lexington,	June 21, 1865.
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William A. Glasgow,	Fincastle,	June 21, 1865.
Rev. William Henry Ruffner,	Rockbridge co.,	Sept. 22, 1865.
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J. M. Leech, *Treasurer*,	Lexington,	June, 1869.

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ASSISTANT PROFESSOR OF ENGLISH AND MODERN LANGUAGES.

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J. M. LEECH,
LIBRARIAN AND CLERK OF FACULTY.

CAPTAIN WALTER BOWIE,
PROCTOR.

CATALOGUE OF STUDENTS.

ABBREVIATIONS.

L.,	Latin.	M. P.,	Moral Philosophy.
G.,	Greek.	H.,	History.
M. L.,	Modern Languages.	M.,	Mathematics.
E.,	English.	A. M.,	Applied Mathematics.
E. L.,	English Literature.	N. P.,	Natural Philosophy.
E. & L.,	English Language and Literature.	C.,	Chemistry.
		B. S.,	Business School.

Names.	*Residence.*	*Studies.*	*Sess.*
Adams, Will Smallwood	Henderson, Ky.,	L., M. L., E., M. P.,	3
Adamson, John	Little Rock, Ark.,	E., M., B. S.,	1
Albert, Frank	Baltimore, Md.,	L., H., M.,	3
Aldrich, James	Barnwell, S. C.,	L., G., E., M.,	1
Allen, Joseph John	Louisburg, N. C.,	L., G., M.,	1
Anderson, James Thomas	Allensville, Ky.,	L., G., A. M., C.,	3
Ashby, Thomas Almond	Front Royal, Va.,	L., M. L., E., C.,	4
Austin, Alvin Ava	Lexington, Mo.,	L., M. L., E., M.,	1
Austin, John Patrick	Lexington, Mo.,	L., E., M.,	1
Ayers, William Cook	New Orleans, La.,	L., M. L., E., M.,	2
Baker, Alexander Mantz	Winchester, Va.,	L., M. L., E., M.,	2
Balfour, William Lovette	Natches, Miss.,	M. L., E., M.,	1
Barclay, Howard William	Lexington, Va.,	L., G., M.,	1
Barclay, Julius Preston	Bowling Green, Ky.,	L., G., M. L., M.,	1
Barclay, Wilbur Fisk	Russellville, Ky.,	L., M., A. M.,	2
Bartlett, Iryl Talbot	New Orleans, La.,	L., G., E. L., M., C.,	1
Barton, James Jenifer	Fredericksburg, Va.,	L., G., M.,	1
Barr, James Gooden	Gallatin, Tenn.,	L., G., M. L., M.,	2
Barr, Robert Wilson	Gallatin, Tenn.,	L., G., M. L., M.,	2
Battle, Thomas Eldridge	Waco, Texas,	L., G., M. L., E., M.,	2
Bayly, Richard Beveridge	Front Royal, Va.,	LAW	4
Bell, Alexander Nelson	Rockbridge co., Va.,	L., G., M.,	2

Names.	*Residence.*	*Studies.*	*Sess.*
Bennett, Charles Stone	Charleston, S. C.,	M., A. M., N. P., C.,	4
Bennett, William Jefferson	Charleston, S. C.,	M. L., A. M., N. P., C.,	4
Berkeley, Lewis	Loudoun co., Va.,	L., G., M. L., M.,	1
Bissell, Daniel	St. Louis, Mo.,	L., M. L., E., M.,	1
Blackmar, John Dexter	St. Louis, Mo.,	L., M. L., E., M.,	2
Bledsoe, Isaac Pipkin	Augusta, Ark.,	M. L., H., M., A. M.,	2
Blow, Taylor	St. Louis, Mo.,	E., M., B. S.,	1
Bond, Lewis Harris	New York,	M. L., M.,	3
Bonner, Allen	Franklin Parish, La.,	E., M.,	1
Boude, John Clinton	Lexington, Va.,	LAW,	1
Bower, Isaac Oren	Irwinton, Ga.,	E., H., M. P.,	1
Boyd, Alston	Memphis, Tenn.,	M. P., M., C.,	4
Boyd, Marmaduke Wyvill	Hagerstown, Md.,	L., E., H., M.,	1
Bradford, Robert Ford	Tallahassee, Fla.,	L., G., E., M.,	2
Breckinridge, Clifton Rodes	Lexington, Ky.,	L., G.,	4
Breckinridge, John Owen	Lexington, Ky.,	L., G., M. L., E.,	2
Brewer, John Buchanan	Rockville, Md.,	L., M. L., E.,	3
Brown, Clinton Capers	Barnwell C. H., S. C.,	L., M. L., E., M.,	1
Brown, William Robert	Fort Valley, Ga.,	E., M., B. S.,	2
Brown, James Frank	Louisville, Ga.,	M. L., E., M., C.,	1
Buford, Frank Giddens	Giles co., Tenn.,	L., G., M., A. M.,	1
Burks, Martin Parks	Liberty, Va.,	L., M. L., M. P., C.,	4
Burnett, Henry Oscar	Crockett, Texas,	L., M. L., E., M.,	2
Burnett, Walter Edgar	Crockett, Texas,	L., M. L., E., M.,	2
Burbank, Charles Mynn	Henderson, Ky.,	L., E., M.,	1
Burbank, David Redman	Henderson, Ky.,	L., E., M.,	1
Butler, William Monroe	Nashville, Tenn.,	L., E., M. L., M.,	1
Cabell, Ashley	New York,	M. L., M. P., M.,	1
Calhoun, John Caldwell	Richmond, Ala.,	M. L., A. M., N. P., C.,	3
Campbell, Edmund Douglass	Wash. Col. Va.,	L., E., M.,	1
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Campbell, Isaac Newton	Rockbridge co., Va.,	L., G., M.,	1
Campbell, John Lyle	Wash. Col., Va.,	L., G., M. L., M.,	2
Carskaddon, Frank Detwiler	Lock Haven, Penn.,	L., E., M.,	1
Carlton, Hubbard Gardner	Richmond, Va.,	G., M. P., M.,	4
Carter, John Jordon	Nashville, Tenn.,	M. L., E. & L., H.,	4
Carrington, Dewitt Cameron	Leon co., Texas,	L., G., E., M.,	2
Chandler, DeLacy Morgan	Rockbridge co., Va.,	L., G., M.,	1
Chaney, Leonidas Beverly	Allen co., Ky.,	L., G., M. L., M.,	1
Chester, Samuel Hall	Mt. Holly, Ark.,	L., G., E., M.,	1
Clark, James Shepherd	Mobile, Ala.,	L., G., M. L., C.,	4
Clarke, Edward Price	St. Louis, Mo.,	L., G., E., M., A. M.,	3

Names.	*Residence.*	*Studies.*	*Sess.*
Claughton, Rodolphe	Alexandria, Va.,	L., M. L.,	1
Clemmitt, Charles William	Richmond, Va.,	L., M. L., E., M.,	1
Coleman, Nathan	St. Louis, Mo.,	L., M. L., E., M.,	1
Coffin, James Wilson	Union City, Tenn.,	M. L., E., M., A. M., C.,	2
Collins, Robert Eli	St. Louis, Mo.,	L., G., M. L., M.,	1
Conrad, Francis Edward	Winchester, Va.,	M. L., M., A. M., N. P., C.,	2
Crawford, John D.	Galveston, Texas,	L., G., M.,	3
Crawford, George Bourland	Augusta, co., Va.,	L., M. L., E., M.,	2
Crosland, Edward	Bennettsville, S. C.,	M. L., A. M., C.,	1
Cuny, Philip Miner	Austin co., Texas,	L., M. L., E., M.,	1
Dabney, William Anderson	Atlanta, Ga.,	L., G., E.,	2
Dabney, Frank Buckingham	Atlanta, Ga.,	L., E., M.,	1
Davis, Garrett Morrow	Paris, Ky.,	L., G., E., M.,	1
Davis, Elijah Brewer	Louisville, Ky.,	M. L., E., H., M.,	2
Davis, Thomas Burt	Bedford co., Ky.,	E., H., M.,	1
Davison, Percy Glenworth	Lexington, Va.,	L., E., M.,	1
Day, Willie Roscoe	Trenton, Ky.,	L., M. L., E., M.,	1
Dazey, George Allen	Farmington, Tenn.,	M. L., E., C.,	1
DeSaussure, Lloyd Champion	Camden, S. C.,	M. L., M., C.,	1
Desha, Cave	Cynthiana, Ky.,	M., A. M., N. P., C.,	2
Desha, Lucius Jr.	Cynthiana, Ky.,	M.L., E.L., H., M.P., N.P., C.	3
Dickson, Palmer	New Orleans, La ,	M. L., E., M.,	1
Dixon, Frank Morgan Stribling	Rockbridge co., Va.,	L., E., M.,	1
Donald, John Crosby	Bellville, Ala.,	E., M., B. S.,	1
Downs, Charles Mortimo	Waco, Texas,	L., M. L., E., M.,	1
Dunlap, William Madison	Rockbridge co., Va.,	M. L., M., A. M., C.,	3
Dunwody, John Henry	Washington, Ga.,	L., M. L., E., M.,	2
Duvall, Henry	Frankfort, Ky.,	E., H., M., B. S.,	1
Edmonds, William	Tuskegee, Ala.,	E. & L., H., M. P., M.,	3
Edmondson, James Kerr	Lexington, Va.,	LAW,	1
Effinger, J. Frederick	Staunton, Va.,	LAW,	1
Effinger, Gerard Morgan	Rockbridge co., Va.,	L., M. L., E., M.,	1
Evans, William Henry	Society Hill, S. C.,	M. L., E., M., A. M., C.,	2
Ewing, John Tate	Rockbridge co., Va.,	E., A. M., C.,	2
Fair, John Simeon	Newberry, S. C.,	L., M. L., M.,	1
Farmer, Shepard Mills	Rapides Parish, La.,	L., E., M.,	1
Farrar, Howard	Madison Parish, La.,	L., G., M. L., E.,	1
Feagin, Noah B.	Midway, Ala.,	LAW,	4
Ferguson, Harvey Butler	Pickensville, Ala.,	L., G., M., C.,	1
Fishburne, James Abbott	Waynesboro, Va.,	G., E., M. P., C.,	4
Fisher, Frederick Kenner	Matagorda, Texas,	M. L., E., M.,	2
Fisher, Samuel Rhoads	Matagorda, Texas,	M. L., E., M., C.,	2
Fisher, Turner Tomson	Paris, Ky.,	E., H., M.,	1

Names.	*Residence.*	*Studies.*	*Sess.*
Fleming, Robert Hanson	Monterey, Va.,	L., G., M. P., C.,	3
Ford, Ambrose Lewis	Cumberland co., Va.,	L., G., M.,	1
Ford, Burette Beverly	Cumberland co., Va.,	L., G., M.,	1
Fouke, Charles Franklin	Charlestown, W. Va.,	L., M. L., E., C.,	2
Gay, John Bass	St. Louis, Mo.,	M. L., E., M.,	1
Gibbs, William Jasper	Cotton Gin, Texas,	E., H., M. P., LAW,	2
Goodloe, John Calvin	Colbert co., Ala.,	E., M., A. M.,	1
Gordon, Angus Neal	Woodford co., Ky.,	L., G., M. L., E., M. P.,	2
Gorman, Walter	Madison, Ark.,	L., M. L., E., M.,	1
Gomez, Eusebio Adolphe	New Orleans, La.,	L., M. L., E., M.,	2
Graves, Joseph Armstrong	Liberty, Va.,	M. L., E. & L., H.,	5
Gray, William Winbourn	Nashville, Tenn.,	L., G., M. L., M., A. M.,	2
Green, Joseph Nathaniel	Lexington, Texas,	L., M. L., E., M.,	1
Green, William	Little Rock, Ark.,	L., G., E., M.,	1
Grey, James Magee	Hopkinsville, Ky.,	M., LAW,	4
Guthrie, Edgar Lehrie	Paris, Ill.,	L., G., E., M.,	1
Guthrie, John Blair	Augusta co., Va.,	L., G., E., M.,	1
Haislip, Reuben Drake	Camden, Ark.,	L., G., M. L., M.,	2
Halbrook, George Caswell	Ripley, Miss.,	L., G., M.,	1
Hamilton, Augustus Houston	Monroe co., W. Va.,	E., H., M. P., N. P.,	4
Hanna, Charles Morton	Shelby co., Ky.,	E., H., M., A. M.,	1
Hanna, Thomas Cooper	New Orleans, La.,	E. & L., H., M. L.,	4
Hardin, Augustus Blackburn	Centreville, Texas,	L., E., M.,	1
Harris, William Wirt Henry	Wash. Col., Va.,	L., G., M. L., M.,	2
Hart, Edmond Jacob	New Orleans, La.,	M. L., E. & L., H.,	4
Henderson, Arthur Taylor	Williamstown, W. Va.,	L., M. L., E., M.,	2
Henderson, Frank Wilson	Houston, Texas,	L., M. L., H., M. P.,	4
Heyward, Walter Izard	Charleston, S. C.,	M. L., E., H., M.,	1
Hibben, Charles Kelley	Chicago, Ill.,	L., G., M.,	2
Hicks, Richard Lowrie	Wrightsville, Ga.,	L., G., M., A. M.,	2
Hicks, Walter Livingstone	Faison's Depot, N. C.,	E., N. P., C.,	2
Hightower, James Echols	Wrightsville, Ga.,	L., G., M. L., E.,	1
Hightower, Robert Henry	Wrightsville, Ga.,	L., G., M. L., M.,	1
Hill, Henry Alexander	Rapides Parish, La.,	L., M. L., E., M.,	1
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Hogan, Overton Penix	Williamstown, Ky.,	L., E., C., B. S.,	1
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Hogue, William Francis	Marion, Ala.,	L., G., E., M.,	1
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Hunter, Donnell Ware	Natches, Miss.,	L., M. L., M.,	1
Hurt, William Harrison	Galveston, Texas,	M. L., E., M., B. S.,	1
Isbell, John Ellis	Russellville, Ala.,	L., E., M.,	1

Names.	*Residence.*	*Studies.*	*Sess.*
Iverson, James Smith	Macon, Ga.,	L., M. L., E., M.,	1
Jackson, Andrew Polk	Bolivar co., Miss.,	L., E., H., M.,	1
Jemison, Samuel Hunter	Monroe, La.,	L., M. L., E., M.,	1
Jenkins, William Dunbar	Natches, Miss.,	M. L., M., A. M., N. P., C.,	2
Johnson, Richard M.	Nineveh, Ind.,	E., H., M.,	1
Johnson, William Dickey	Columbia co., Ark.,	L., G., E., M.,	1
Johnson, William	Parkersburg, W. Va.,	M. L., E., M., C.,	2
Johnston, William McEwen	Loudon, Tenn.,	M. L., E., H., C.,	4
Jordan, Seth	Sparta, Ga.,	L., G., M. L., M.,	1
Kennedy, Belton O'Neal	Camden, S. C.,	L., M. L., E., M.,	1
Kennedy, Thomas Pugh	Tampa, Fla.,	E. L., M., C.,	3
Kernan, Thomas Jones	Clinton, La.,	L., G., M. L., M.,	1
Kerr, Wallace Keen	Claiborne Parish, La.,	L., E., M.,	1
Kirtland, Edward Mansfield	New York,	L., M. L., E., M.,	1
Kinckle, William Henry	Lynchburg, Va.,	E. L., H., M. P., C.,	2
Kittredge, Francis Robert	Napoleonville, La.,	L., G., M., C.,	2
Koontz, George Wallace	Natches, Miss.,	L., M. L., E., C.,	2
Kruttschnitt, Ernest Benjamin	New Orleans, La.,	G., M. L., E., H., M. P., C.,	3
Lackey, Harry Jordan	Rockbridge co., Va.,	L., E., C.,	2
Lacy, John Alexander	St. Louis, Mo.,	M. L., E. L., H., M. P., C.,	4
Laird, Alexander Franklin	Rockbridge co., Va.,	H., M. P., A. M.,	4
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Lewis, Frank Walton	Augusta co., Va.,	L., G., M., A. M.,	3
Lewis, John Stacker	Clarksville, Tenn.,	L., M. L., E., M.,	2
Levy, Achille	Point Coup. Par., La.,	M. L., E., M.,	2
Leyburn, Walter Howard	Rockbridge co., Va.,	L., M. L., M.,	2
Lillard, Robert Whitley	Stanford, Ky.,	M. L., E. L., H., M. P.,	2
Little, Willie Green	Eatonton, Ga.,	L., G., E.,	1
Littlepage, Thomas A.	Choctaw co., Ala.,	LAW,	1
Lloyd, John Janney	Alexandria, Va..	L., M. L., E., M. P.,	3
Locke, Edwin Henry	Charleston, S. C.,	M. L., E.. M., B. S.,	
Logan, Emmett Garvin	Shelbyville, Ky.,	L., G., M. L., E., A. M.,	
Logan, John Lewis	Roanoke co., Va.,	M. L., M. P., M., C.,	3
Long, Malcolm Green	Russellville, Ky.,	L., E., M.,	1
Mading, James Monroe	Collinsburg, La.,	L., E., M.,	1
Marshall, Alfred Washington	Scott co., Ky.,	G., M. L., H., M. P.,	3
Mason, Silas Boxley	Staunton, Va.,	M., A. M., N. P.,	4
Martin, John	Charlotte co., Va.,	M. L., E., M. P., M., C.,	3
Massie, James McDowell	Lexington, Va.,	L., G., M. L., M.,	1
Mathews, Marion	Robertson co., Tenn.,	G., M. L., M.,	2
McChesney, Jacob Newton	Staunton, Va.,	L., G., E., M.,	2
McCluer, John Parry	Rockbridge co., Va.,	A. M., N. P., C.,	3

Names.	*Residence.*	*Studies.*	*Sess.*
McCormick, Sidney Dyer	Henderson, Ky.,	M. L., E. L., H., C.,	4
McCorkle, Charles Edward	Rockbridge co., Va.,	G., M. L., C.,	3
McCorkle, Walter Lee	Rockbridge co., Va.,	L., M. L., M.,	2
McCulloch, Charles Edward	Point Pleas'nt, W. Va.,	L., G., M.,	1
McCutchan, Frank	Augusta co., Va.,	E. & L., M. P., M.,	3
McCutchan, John Samuel	Rockbridge co., Va.,	M. L., E., M.,	3
McCutchan, William Thomas	Rockbridge co., Va.,	L., G., A. M.,	3
McDowell, William George	Lexington, Va.,	M. L., A. M., N. P.,	3
McIntosh, Murray	Society Hill, S. C.,	M. L., E., M., N. P., C.,	2
McNeilly, Robert Andrew	Charlotte, Tenn.,	M. L., M., A. M., C.,	2
Menager, James Bobin	Point Pleas'nt, W. Va.,	L., G., M.,	1
Menager, Julius Lynn	Point Pleas'nt, W. Va.,	L., G., M.,	1
Merritt, William Wilkins	Bowling Green, Ky.,	L., M. L., E., M.,	1
Meriwether, Charles Nicholas	Todd co., Ky.,	M. L., E., M., A. M.,	2
Meriwether, James McClure	Todd co., Ky.,	E., A. M., C., B. S.,	2
Miller, Daniel Rench	Mason and Dixon, Pa.,	L., G., M. L., E., M.,	1
Miller, Lewis Godfrey Meineke	Winchester, Va.,	M. L., A. M., C., N. P.,	4
Minis, Jacob Florance	Savannah, Ga.,	L., M. L., E.,	2
Mitchell, Frank Hart	Columbus, Ga.,	L., G., M. L., M.,	2
Moffett, Alexander Stuart	Augusta co., Va.,	L., G., M. L., E.,	3
Montgomery, Emile	Westchester co., N. Y.,	L., G., E., M.,	1
Montgomery, Frank	Westchester co., N. Y.,	L., G., E., M.,	1
Moody, Frank Sims	Tuskaloosa, Ala.,	M. L., H., M., C.,	3
Moore, Baldwin Spyker	Austin, Texas,	L., M. L., E., M., A. M.,	2
Moore, John Marks	Austin, Texas,	L., G., E., M.,	1
Moore, Milton Andrew Jackson	Marlbor'gh co., S. C.,	L., M. L., E., M.,	1
Moore, John Campbell	Rockbridge co., Va.,	L., E., M.,	2
Moses, Benjamin DeLeon	Greensboro, Ga.,	L., G., M. L., M.,	1
Nelson, William Jasper	Austin, Miss.,	L., M. L., E., M.,	2
North, Charles Samuel	Bunker Hill, W. Va.,	LAW,	1
Officer, Eustis Feild	Little Rock, Ark.,	E., M., A. M., C.,	1
Orgain, Horace Kimball	Bastrop, Texas,	L., M. L., E., M.,	1
O'Reilley, John Edmund	Russellville, Ala.,	L., M. L., E., M.,	1
Orme, Francis Henry	Brunswick, Ga.,	L., M. L., E., M.,	1
Owens, George Welshman	Savannah, Ga.,	L., M. L., M.,	1
Owen, Kennedy Riddle	Baltimore, Md.,	L., M. L., M.,	1
Page, Thomas Nelson	Hanover co., Va.,	L., G., M. L., M.,	1
Parrott, Albert DeKalb	Kinston, N. C.,	L., E., M.,	1
Patterson, Nicholas Austin	Barnwell, S. C.,	L., E., H., M.,	1
Patrick, Beverly Prier	Centreville, Texas,	L., G., E., M.,	2
Percy, Charles Brown	Nashville, Tenn.,	A. M.,	4
Perkins, Edwin Maury	Franklin, Tenn.,	M. L., E., M., C.,	1
Perrin, George Clopton	Abbeville, S. C.,	M. P., M., A. M.,	1

Names.	*Residence.*	*Studies.*	*Sess.*
Peters, George Boddie Jr.,	Memphis, Tenn.,	L., M. P., M., C.,	4
Pike, Yvon	Little Rock, Ark.,	M. L., E., M.,	1
Pinkerton, John Dandridge	Rockbridge co., Va.,	E., M., A. M., N. P., C.,	3
Poague, James Christian	Rockbridge co., Va.,	M. L., M., A. M., C.,	2
Porter, William Franklin	Grafton, W. Va.,	L., G., M. L., M.,	1
Postal, William Dyer	Memphis, Tenn.,	L., G., M. L., E., M.,	1
Prather, James Corner	Waco, Texas,	M. L., E., H., C.,	3
Prather, William Lambdin	Waco, Texas,	G., H., M. P.,	3
Preston, John Alexander	Lexington, Va.,	L., G., M.,	1
Price, Patrick Augustus	Cuthbert, Ga.,	M. L., E., H.,	2
Price, Risdon Hutchings	St. Louis, Mo.,	L., M. L., E., M.,	1
Pyle, Zadock Ingram	Galveston, Texas,	M. L., E., M.,	1
Raines, Lucian Hamilton	Thomasville, Ga.,	C., LAW,	1
Rain, Jackson Joseph	Gainsville, Fla.,	L., M. L., E., M.,	2
Rainey, Josiah	Germanton, N. C.,	M. L., E., H.,	2
Ransom, Matt Whitaker	Garysburg, N. C.,	L., G., M. L., E., M.,	1
Rathbone, Francis Vinton	Parkersburg, W. Va.,	L., M. L., M., B. S.,	1
Ray, Moses Thompson	Tuskegee, Ala.,	M. L., E., M., C.,	2
Rees, Albert Lamar	Americus, Ga.,	M. L., E., M. P., C.,	4
Respess, Nathan Leonidas	Thomaston, Ga.,	L., M. L., M.,	2
Rhea, William	Pulaski, Tenn.,	E., M., A. M., C.,	1
Richey, Robert James	Waco, Texas,	L., G., M. L.,	2
Roane, Frank	Lynchburg, Va.,	M. L., E. & L., H., M. P.,	4
Robb, Septimus Adelbert	Trinity co., Texas,	L., G., E., M.,	2
Robinson, Archibald Graham	Richmond, Va.,	E., M., A. M., N. P., C.,	3
Rogers, William Hunter	Rockbridge co., Va.,	L., G., C.,	2
Ross, Frank Lyon	Mobile, Ala.,	E. L., H., M., C.,	1
Ruff, Andrew Wallace	Rockbridge co., Va.,	L., E., M.,	1
Rust, Lawrence	Leesburg, Va.,	L., G., M.,	1
Rutherford, Charles Neely	Austin, Texas,	L., G., E., M.,	1
Ryan, Philip	Richland Parish, La.,	L., E., M., B. S.,	1
Santini, Gabriel	New Orleans, La.,	L., M. L., E. & L., M.,	2
Savage, John	Gainesville, Fla.,	L., M. L., E., M.,	2
Saville, William	Rockbridge co., Va.,	L., G., E., M.,	2
Sayers, James Kinner	Triune, Tenn.,	E., L., H., M., P.,	3
Scott, Isaac Vanmeter	Charlotte co., Va.,	L., G., E., M.,	1
Seal, Florian	Mississippi City, Miss.,	L., M. L., E.,	1
Selkirk, John McMullen	Matagerda, Texas,	L., M. L., E., M.,	2
Semple, Robert	Thomasville, Miss.,	LAW.	
Shields, Wilmer Henry	Natches, Miss.,	M., A. M., C.,	2
Sims, Harry Lucas	Paris, France,	L., G., E., M., C.,	1
Smith, Charles Rush	Verona, Miss.,	L., M., E.,	1
Smith, Murray Forbes	Milton, N. C.,	L., E., H., M.,	2

Names.	*Residence.*	*Studies.*	*Sess.*
Smith, William Martin	Concord, N. C.,	L., LAW,	3
Somerville, Thomas Hugh	Culpeper co., Va.,	L., M. L., M., C.,	2
Spence, Norval Thomas	Cincinnati, Ohio,	E., H., M., C.,	1
Spiller, William	Bidgeport, Ala.,	L., G., M. L.,	1
Stansel, James Bethel	Carrollton, Ala.,	L., G., M., C.,	1
Stern, Joseph Lane	Caroline co., Va.,	LAW,	4
Stephens, Isaac W.	Bledsoe co., Tenn.,	L., G., E., M.,	1
Stephens, William Emmett	Bledsoe co., Tenn.,	L., G., A. M.,	1
Strayer, Henry Venable	Harrisonburg, Va.,	L., G., M. L., E.,	1
Stephenson, Walter Darence	La Grange, Tenn.,	L., G., M. L., M.,	1
Strider, Joseph Luke	Jefferson co., W. Va.,	E., M., P., C.,	2
Swanson, William Griffin,	Tuskegee, Ala.,	L., E., M., C.,	2
Taliaferro, Charles Pope	New Market, Ala.,	L., M. L., E., M.,	1
Tatum, Arthur Joel	Monroe, La.,	L., E., M.,	1
Tayloe, William Henry	Hale co., Ala.,	L., G., M. L., M.,	1
Taylor, Alexander Wilson	Staunton, Va.,	M., A. M.,	1
Taylor, Joseph Willis	Waco, Texas,	L., M. L., E., H., M.,	2
Thom, William Taylor,	Richmond, Va.,	M. L., A. M., N. P., C.,	6
Thomas, John Samuel	Providence, Mo.,	L., M. L., M.,	3
Timms, Frank Hartwell	Little Rock, Ark.,	H., M., C.,	1
VanHorn, Marvin A. DeL.	Newton, N. J.,	L., G., E., H., M.,	2
Varner, Robert	Tuskegee, Ala.,	L., G., E., M.,	2
Vaughan, James English	Camden, S. C.,	L., E., M.,	1
Vinson, William Daniel	Sumpter co., S. C.,	L., G., M.,	3
Waddell, Addison Alexander	Lexington, Va.,	M. L., M., A. M., C.,	3
Waddill, Frank Alexander	Cheraw, S. C.,	M. L., M., N. P.,	4
Wadley, Hun Gansevoort	Parramore Hill, Ga.,	A. M., N. P.,	2
Walden, Julius Walker	Talladega, Ala.,	L., G., M. L., E., M.,	1
Waller, James Breckenridge	Chicago, Ill.,	M. L., E., M.,	1
Waller, Robert Alexander	Chicago, Ill.,	M. L., M., A. M.,	3
Walker, Norman McFarland	New Orleans, La.,	M. L., E. & L., H., C.,	1
Walker, William Wilberforce	Belfast, Tenn.,	L., G., M. L., C.,	1
Warren, Charles Frederick	Washington, N. C.,	L., E., M.,	1
Washington, William Henry	Murfreesboro, Tenn.,	L., M. L., H., C.,	2
Watkins, S. Ferdinand	Madison, N. C.,	LAW,	1
Weaver, Thomas Shadrach	Nashville, Tenn.,	L., M. L., H., E. L., M. P.,	3
Webb, Samuel Henry	Oaks, N. C.,	LAW,	1
Werber, Jr., Frederick	Newberry, S. C.,	L., G., M. L., E., M.,	1
Westbrook, Moses Lawrence	Waco, Texas,	L., M. L., E., M.,	1
White, William Scott	Lexington, Va.,	L., G., M.,	1
Wilcox, William Willis	Mansfield, La.,	L., G., M. L., M.,	1
Wilkinson, Clement Penrose	Plaquemine Par., La.,	E. L., H., M., C.,	1
Wilkinson, Robert Andrews	Plaquemine Par., La.,	L., E. L., H., M.,	2

Names.	*Residence.*	*Studies.*	*Sess.*
Williams, Willie Lewis Franklin	Richland Parish, La.,	L., E., M., B. S.,	1
Willingham, Calder Baynard	Allendale, S. C.,	L., G., E., M.,	2
Wilson, Allen	Bossier Parish, La.,	L., G., M. L., M.,	2
Wilson, Charles Le Grand	Buchanan, Va.,	G., L., M., C.,	2
Wilson, Daniel Love	Churchville, Va.,	L., G., M., A. M.,	2
Wilson, Hugh Martin	Knoxville, Tenn.,	L., G., M. L., M.,	3
Wilson, James	Knoxville, Tenn.,	L., G., E., M.,	1
Winchester, James Ridont	Annapolis, Md.,	L., G., E., M.,	1
Wingfield, James Francis	Liberty, Va.,	L., G., M. L.,	2
Winn, Samuel Knox Talmadge	Decatur, Ga.,	L., G., M.,	1
Winston, William Morrison	Gainesville, Ala.,	E., M., A. M.,	3
Wisdom, Mortimer Norton	New Orleans, La.,	L., G., H., M.,	2
Witherspoon, Robert	Maysville, S. C.,	L., M. L., E., H.,	2
Woodruff, Willie Waller	Griffin, Ga.,	L., E., M.,	1
Worthington, Samuel Brown	Pikeville, Tenn.,	L., M., A. M.,	1
Wyche, Thomas Lyttleton	Thomasville, Ga.,	E., H., M.,	1
Wyrick, Edward Jasper L.	Magnolia, Ark.,	L., M. L., M., C.,	2
Younger, George Worthington	Dresden, Texas,	L., E., M.,	1

Resident Masters.

Charles A. Graves, M. A. ..... Liberty, Virginia.
Milton W. Humphreys, M. A. ..... Braxton co., W. Virginia.
Duncan C. Lyle, M. A. ..... Rockbridge co., Virginia.

RECAPITULATION.

Virginia	77	Arkansas	10
Kentucky	29	Maryland	5
Tennessee	28	New York	5
Texas	29	Florida	4
Georgia	26	Illinois	4
Louisiana	26	Ohio	2
Alabama	24	Pennsylvania	2
South Carolina	21	Indiana	1
Mississippi	13	Massachusetts	1
Missouri	12	New Jersey	1
West Virginia	12	District of Columbia	1
North Carolina	10	Paris, France	1

Undergraduates	341
Resident Masters	3
	344

SCHOOLS ATTENDED.

Latin	213	Mathematics	252
Greek	114	Applied Mathematics	48
Modern Languages	171	Natural Philosophy	22
English	191	Chemistry	81
English Literature	22	Law	15
Moral Philosophy	33	Business School	11
History	54		

List of Distinguished Proficients

In the Several Schools—1868-'69.

SCHOOL OF LATIN.

Lucius Desha.....Kentucky.
James A. Fishburne.....Virginia.
Ernest B. Kruttschnitt.....Louisiana.
J. Lewis Logan.....Virginia.
Frank McCutchan.....Virginia.
John Martin.....Virginia.

SCHOOL OF GREEK.

Lucius Desha.....Kentucky.
William Edmonds.....Alabama.
J. Lewis Logan.....Virginia.
Frank S. Moody.....Alabama.
John P. Strider.....West Virginia.
George B. Peters.....Tennessee.
W. Taylor Thom.....Virginia.

SCHOOL OF MODERN LANGUAGES.

I.—French.

J. Owen Breckinridge.....Kentucky.
Edward P. Clarke.....Tennessee.
James A. Fishburne.....Virginia.
Duncan C. Lyle.....Virginia.
Frank McCutchan.....Virginia.
Wm. T. McCutchan.....Virginia.
George B. Peters.....Tennessee.
Gabriel Santini.....Louisiana.
Frank Taliaferro.....Virginia.
William D. Vinson.....South Carolina.

II.—German.

John D. Crawford.....Texas.
William Edmonds.....Alabama.
Charles A. Graves.....Virginia.
J. Peyton Hobson.....Virginia.
John Martin.....Virginia.
John P. Strider.....West Virginia.
B. Harrison Waddell.....Virginia.

SCHOOL OF HISTORY AND LITERATURE.

I.—English.

James T. Anderson.....Kentucky.
Ritchie H. Belser.....South Carolina.
James T. Caldwell.....Kentucky.
Frank Coleman.....Alabama.
Jeff Lane.....Georgia.
Frank W. Lewis.....Virginia.
Sidney D. McCormick.....Kentucky.
Frank Page.....Virginia.

I.—ENGLISH—*Continued.*

Noah B. Feagin	Alabama.
Robert H. Fleming	Virginia.
C. C. Garrett	Texas.
William S. Graves	Virginia.
Francis W. Henderson	Texas.
J. Peyton Hobson	Virginia.
Cyrus D. Hogue	Alabama.
William H. Kinckle	Virginia.
John A. Kirkpatrick	Virginia.
William L. Prather	Texas.
John A. Preston	West Virginia.
William M. Rogers	Mississippi.
Frank Taliaferro	Virginia.
William G. Taylor	Tennessee.
William T. Thom	Virginia.
B. Harrison Waddell	Virginia.
Frank A. Waddill	South Carolina.

II.—HISTORY.

Samuel Z. Ammen	Virginia.
Richard B. Bayly	Virginia.
C. C. Garrett	Texas.
Gilbert B. Gibson	Virginia.
Charles A. Graves	Virginia.
William S. Graves	Virginia.
Milton W. Humphreys	West Virginia.
Duncan C. Lyle	Virginia.
Hugh A. Moran	Kentucky.
Matt. M. Neil	Tennessee.
Joseph L. Stern	Virginia.
John P. Strider	West Virginia.
William T. Thom	Virginia.
B. Harrison Waddell	Virginia.
Frank A. Waddill	South Carolina.

III.—LITERATURE.

Samuel Z. Ammen	Virginia.
Richard B. Bayly	Virginia.
Noah B. Feagin	Alabama.
C. C. Garrett	Texas.
Gilbert B. Gibson	Virginia.
Charles A. Graves	Virginia.
William S. Graves	Virginia.
Milton W. Humphreys	West Virginia.
Duncan C. Lyle	Virginia.
Hugh A. Moran	Kentucky.
Matt. M. Neil	Tennessee.
John P. Strider	West Virginia.
William T. Thom	Virginia.
B. Harrison Waddell	Virginia.
Frank A. Waddill	South Carolina.

SCHOOL OF MORAL PHILOSOPHY.

Samuel Z. Ammen	Virginia.
James T. Caldwell	Kentucky.
Frank Coleman	Alabama.
William W. Davis	Texas.
C. C. Garrett	Texas.
Gilbert B. Gibson	Virginia.
Charles A. Graves	Virginia.
William S. Graves	Virginia.
Joseph A. Graves	Virginia.
John Green	Arkansas.
James M. Grey	Kentucky.
J. Peyton Hobson	Virginia.
Milton W. Humphreys	West Virginia.
Duncan C. Lyle	Virginia.
Joseph McLester	Alabama.
Frank S. Moody	Alabama.
Edwin C. Moorman	Virginia.
Hugh A. Moran	Kentucky.
Matt. M. Neil	Tennessee.
Edward D. Pitts	Virginia.
Frank Taliaferro	Virginia.
William G. Taylor	Tennessee.
William T. Thom	Virginia.
Frank A. Waddill	South Carolina.

SCHOOL OF MATHEMATICS.

Martin P. Burks	Virginia.
Lucius Desha	Kentucky.
J. Peyton Hobson	Virginia.
Ernest B. Kruttschnitt	Louisiana.
William T. McCutchan	Virginia.
James P. Nelson	Virginia.
Richard W. Rogers	Georgia.
James E. Smith	Virginia.

SCHOOL OF APPLIED MATHEMATICS.

William W. Carson.....Louisiana. | Willis B. Smith.....Virginia.

SCHOOL OF NATURAL PHILOSOPHY.

Donald Allen.....Virginia.
Edmund Berkeley.....Virginia.
William W. Carson.....Louisiana.
James P. Nelson.....Virginia.
Willis B. Smith.....Virginia.

SCHOOL OF CHEMISTRY.

Donald Allen.....Virginia.
Charles B. Percy.....Tennessee.
Willis B. Smith.....Virginia.
Frank A. Waddill.....South Carolina.

SCHOOL OF APPLIED CHEMISTRY.

Donald Allen.....Virginia.
Edmund Berkeley.....Virginia.
William W. Carson.....Louisiana.
James P. Nelson.....Virginia.
Willis B. Smith.....Virginia.

Graduates--1868-'69.

CIVIL ENGINEERS.

Donald Allen.....Virginia. | James P. Nelson.....Virginia.

MINING ENGINEERS.

Donald Allen.....Virginia.
Edmund Berkeley.....Virginia.
William W. Carson.....Louisiana.
James P. Nelson.....Virginia.

BACHELORS OF LAW.

John S. Barlow, Jr.....Kentucky.
Hill Carter.....Virginia.
James W. Dunlap.....West Virginia.
William H. Gibbs.....Texas.
Seymour W. Holman.....Virginia.
Henry C. Lowry.....Virginia.
J. Harvey McLeary.....Texas.
Charles T. O'Ferrall.....Virginia.
John T. Pendleton.....Kentucky.
James F. Payne.....Virginia.
Henry Pickles.....Louisiana.
D. Gardiner Tyler.....Virginia.
J. L. Walpole.....Tennessee.

BACHELOR OF PHILOSOPHY.

C. C. Garrett.....Texas.

BACHELORS OF ARTS.

Frank Coleman.....Alabama.
Sterling R. Cockrill.....Tennessee.
William W. Davis.....Texas.
C. C. Garrett.....Texas.
J. Peyton Hobson.....Virginia.
Joseph McLester.....Alabama.
Edwin C. Moorman.....Virginia.
Hugh A. Moran.....Kentucky.
Frank Taliaferro.....Virginia.
William T. Thom.....Virginia.

MASTERS OF ARTS.

Samuel Z. Ammen.....Virginia.
Charles A. Graves.....Virginia.
William S. Graves.....Virginia.
Milton W. Humphreys.....West Virginia.
Duncan C. Lyle.....Virginia.
Willis B. Smith.....Virginia.
John P. Strider.....West Virginia.
B. Harrison Waddell.....Virginia.

The RESIDENT MASTERSHIPS, for the years 1869–'71, were conferred upon the following graduates:

Charles A. Graves, M. A.....Virginia.
Milton W. Humphreys, M. A.....West Virginia.
Duncan C. Lyle, M. A.....Virginia.

The HONORARY SCHOLARSHIPS, for the session 1869–'70, were conferred as follows:

Lucius Desha, Jr., Kentucky.....By the President.
Richard L. Hicks, Georgia.....Latin, Greek, Mathematics.
William D. Vinson, South Carolina.....Latin, Greek, Mathematics.
Charles B. Percy, Tennessee.....Applied Math., Nat. Philos'y, Chemistry.
Daniel L. Wilson, Virginia.....Mod. Languages, Moral Philos'y, History.

The ROBINSON PRIZE MEDALS, for the session 1868–'69, were conferred as follows:

J. Peyton Hobson, Virginia.....Latin, Greek, and Mathematics.
James P. Nelson, Virginia.....Ap. Math., Nat. Philos'y, and Chemistry.
Charles A. Graves, Virginia.....Mod. Lang's, Moral Philos'y, and History.

The COMMENCEMENT ORATIONS, 1869, were awarded as follows:

Milton W. Humphreys, M. A.....West Virginia.....Cincinnati Oration.
C. C. Garrett, A. B. and B. P.....Texas.....College Prize Oration.
John P. Strider, M. A.....West Virginia.....Valedictory Oration.

ORGANIZATION.

The Course of Study is divided into the following several Schools, each one of which is independent and complete in itself. The student attends the schools of his choice.

SCHOOL OF LATIN.

PROFESSOR HARRIS. ASS'T PROFESSOR HUMPHREYS.

INSTRUCTOR, MR. GRAVES.

To secure admission into this School, the applicant should be familiar with the forms of the language, and have such acquaintance with its syntax, as shall enable him to construe correctly the easier authors. Such attainments may be made by mastering an elementary grammar and exercise book, (Bingham's or other,) a Latin Reader, and Cæsar.

There are three classes in this School:

I. Junior Class.

In this class there are two Divisions.—1. The Second Division read Cæsar, Nepos (Arnold's,) Ovid; Gildersleeve's Grammar and Arnold's Latin Prose Composition are used here. 2. The First Division read Sallust, Cicero de Senectute and de Amicitia, and Virgil. Same Grammar and Exercise Book as in the other Division; also Schmitz's Advanced Exercises. The elements of Roman History and Geography are taught in this class. *Text-Books:*—Smith's History of Rome: Long's Atlas. (Six recitations per week.)

II. Intermediate Class.

Authors read: Livy, Cicero, Tacitus; Zumpt's Grammar is used in this class. Written exercises in translating English into Latin and Latin into English form a leading feature in the instruction of this class, and of the Senior class also. The Roman Antiquities are studied here. (Three recitations per week.)

III. Senior Class.

The authors read are: Horace, Virgil, Plautus, Terence, Juvenal. Roman History and Literature. Text-Book in Literature: Browne's Roman Literature. (Three recitations per week.)

The whole course is required for Proficiency in this School.

SCHOOL OF GREEK.

PROFESSOR WHITE. ASS'T PROFESSOR HUMPHREYS.

In this School there are three classes:

I. Junior Class.

This class read Xenophon's Anabasis and Memorabilia, and are instructed in the principles and structure of the language, as exemplified by regular exercises in Greek composition. Küehner's Grammar is used as a manual. The forms of the language are taught in this class. (Six recitations per week.)

II. Intermediate Class.

The authors read in this class are Demosthenes and Plato, with references to the Grammars of Küehner, Matthiæ, and Jelf. Exercises in Greek Composition are written regularly, consisting of selections from the best authors, translated by the Professor and furnished to the class to be rendered into the original. These exercises are criticised and returned to the class, accompanied by explanation of the principles of the language involved. A full course of lectures on Syntax is delivered to this class. (Three recitations per week.)

III. Senior Class.

The authors read are Euripides, Thucydides, Sophocles, and Homer, with reference to the Grammars named above. Exercises in Greek Composition, similar to those required in the Intermediate class, but of a higher grade, are written in this class. (Three recitations per week.)

The History of Greek Literature is taught by lectures. Greek History is taught in the School of History. In addition to what is read in the lecture room, candidates for graduation in Greek are expected to read extensively in such authors as the Professor may indicate, and to study regularly some standard Grammar, such as that of Küehner or Matthiæ.

The whole course is required for Proficiency in this School.

SCHOOL OF MODERN LANGUAGES.

PROFESSOR JOYNES. ASS'T PROFESSORS MORRISON AND GRAVES.

The languages embraced in this School are the French, the German, the Spanish, and the Italian. In French and in German there are two classes, Junior and Senior. For admission into the Senior class the student must have passed successfully through the entire Junior course, or made equivalent attainments.

The course of instruction in French and in German is extensive and thorough; in Spanish and in Italian, it is briefer and more exclusively practical. In all, however, the means are afforded of acquiring an accurate as well as a useful scholarship, such as shall enable the student to read the languages with correctness and ease, and to understand their literature. The speaking of the languages, which can be learned only by experience, is not here attempted; but by the careful teaching of their correct pronunciation, and the constant study and praxis of their idioms

in both oral and written exercises, the effort is made so to accustom the student to their forms and modes of expression that the task of learning to speak them afterwards would be comparatively easy.

Text-Books.

FRENCH.—*Junior Class.*—Introduction to French Pronunciation, by the Professor. Otto's French Grammar and Exercises, completed. Easy French Reading. Æsop's Fables in French. Charles XII.

Senior Class.—De Fivas' French Grammar and Exercises, or Borel's Grammaire Française and Cours de Thèmes. Littérature Française 'Classique' and 'Contemporaine' (2 vols. Leypoldt & Holt.) Classical and Modern Drama—Selected Plays. Spiers & Surenne's Dictionary (larger edition) is recommended.

GERMAN.—*Junior Class.*—Otto's German Grammar and Exercises. Whitney's Reader.

Senior Class.—Whitney's Grammar and Exercises. Schiller, Goethe; Selected Modern Authors. Adler's German Dictionary (larger edition) is recommended.

SPANISH.—Ahn's Grammar. Tolon's Elementary Reader. Don Quixote. Obras Maestras (Lope de Vega and Calderon.) Seaone's Dictionary (small edition.)

ITALIAN.—Text-books will be made known hereafter.

Each class in this School recites three times a week.

The requirements for Degrees in this School are:

For BACHELOR OF SCIENCE, CIVIL OR MINING ENGINEER, French; for BACHELOR OF ARTS, French or German; for BACHELOR OF PHILOSOPHY OR MASTER OF ARTS, both French and German. The entire course, in every case, is required for Proficiency.

SCHOOL OF ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR ———. ASS'T PROFESSOR GRAVES.

In this School, now fully organized, it is designed to enable the student to acquire, 1st, a practical understanding and scholarly command of the English language, as his mother tongue; 2d, a knowledge of its origin, history, and relations, with a just estimate of its powers and importance as a language; and, 3d, an acquaintance with its literature and literary history, together with that culture of taste and of style which is to be derived from the study and criticism of the master pieces of literary composition.

In thus organizing this School, in recognition of its intrinsic importance, and in response to the demand and necessity for a more thorough study of our own language, the Board of Trustees, encouraged by the success of the efforts already made in these studies in Washington College, look to the early endowment of the Chair, and the appointment of a distinct Professor. In the meantime the instruction is divided among the Professors of Modern Languages, Moral Philosophy, and History.

The course of Instruction is as follows:

I. ENGLISH LANGUAGE.—Professor KIRKPATRICK.

In this course there are two classes, *Junior* and *Senior*:

Beginning in the Junior class with the grammatical forms, and with the most practical exercises in reading and writing the language, the student is advanced in the Senior class to a consideration of rhetorical principles and their application. Analysis, criticism, the composition of essays and construction of arguments, and elocution by declamation and the delivery of original

orations, are all constantly employed to familiarize the student with the effective use of his mother-tongue.

Text-Books.

1. The *Junior Class* use Bingham's Grammar, Dictation Exercises, Goodrich's New Sixth Reader, Boyd's or Bonnell's Composition. A large part of the instruction is outside of the text-books.

2. The *Senior Class* use Fowler's Grammar, Bain's Rhetoric, Whateley's Rhetoric.

The above course is requisite for Proficiency in ENGLISH.

II. ENGLISH LITERATURE.—Professor JOHNSTON.

The class in English Literature pursues a more extended course. In this class the exercises embrace the application of the principles learned in the English course, and of the general culture of the student; with the criticism of the master-pieces of English Poetry and Prose, and the preparation of original essays and orations. The instruction is conducted principally by lecture. For admission into this class, the student should have completed the entire course of the English Language.

Text-Books.

Shaw's History of English Literature; H. Read's Lectures; Shakspeare; Craik's English Literature; Goodrich's British Eloquence.

This course is requisite for Proficiency in ENGLISH LITERATURE, or in the entire School of ENGLISH LANGUAGE AND LITERATURE.

III. ENGLISH PHILOLOGY.—Professor JOYNES.

This course embraces the study of the elements and history of the English Language, with a view of its comparative philology. Its etymological forms and chief grammatical characteristics are

also studied, with reference to the principles of general grammar, and the comparison of related languages.

For admission into this class, it is desirable that the student should be well advanced in the study of the classics and the modern languages, or at least of Latin and German.

Text-Books.

Latham's Handbook, with Lectures; Clark's Elements of the English Language; Whitney's Language and the Study of Language.

This course is not at present required for degrees.

Each class in this School recites three times a week.

SCHOOL OF MORAL PHILOSOPHY.

PROFESSOR KIRKPATRICK.

This School embraces Mental Philosophy; Logic; Ethics, or Moral Philosophy proper; and the Evidences of Christianity.

The instruction is partly by the use of text-books, and partly by lectures.

The principal text-books are Hamilton's Metaphysics, as compiled by Professor Bowen of Harvard University; Bowen's Logic, comprising the Aristotelian and Hamiltonian Analyses of Logical Forms; Alexander's Outlines of Moral Science, with an introductory and a supplementary series of lectures by the Professor; Butler's Analogy; Paley's Evidences of Christianity.

In addition to the text-books, students, and especially those offering for the Degree of M. A., will be required to read, in Metaphysics, Reid's Intellectual Powers, with Hamilton's Notes and Dissertations, Stewart's Elements, Cousin's Criticism of Locke; and in Ethics, Jouffroy's Introduction, Butler's Sermons on Human Nature, Thornwell's Discourses on Truth.

Essays on the subjects embraced in this School, and written analyses of discussions pursued by the authors or in the lectures, will be required, from time to time, throughout the course.

(Six recitations per week.)

SCHOOL OF HISTORY AND POLITICAL ECONOMY.

PROFESSOR JOHNSTON.

This School embraces Ancient and Modern History, and Political Economy.

There are two classes, *Junior* and *Senior*.

I. Junior Class.

In this class are taught the Outlines of History. The mode of instruction has particular reference to the facts of History. It is carried on by rigid examination upon the text, with a running commentary and occasional lectures. The attempt is made to give a comprehensive view of the Outlines of History, together with its essential unity.

This class recites six times a week.

The text-books are Smith's Greece, Liddell's Rome, Students' Gibbon, and Students' Hume.

This course is required for Proficiency in History.

II. Senior Class.

In this class are taught English and American History, the History of Civilization, and Political Economy. The instruction in English and American History is by the study of epochs, with

reference to the development of institutions and the progress of society, and is illustrated by frequent lectures.

Three lectures each week.

The text-books used are the Works of Hume, Macaulay, and Washington Irving; Smyth's Lectures; Arnold's Lectures on Modern History; Guizot's History of Civilization; and, for the present, Wayland's Political Economy.

This course is required for Distinguished Proficiency.

SCHOOL OF MATHEMATICS.

PROFESSOR NELSON. ASS'T PROFESSOR LYLE.

INSTRUCTOR—MR. BERKELEY.

In this School there are three classes:

I. Junior Class.

In this class are taught the Theory of Numbers, Algebra, and Geometry. (Six recitations per week.)

In order that students may enter this class, they must be familiar with Arithmetic, and have some acquaintance with the fundamental principles of Algebra and Geometry.

II. Intermediate Class.

This class studies Plane and Spherical Trigonometry, and Analytical Geometry. (Three recitatians per week.)

III. Senior Class.

This class studies the Differential and Integral Calculus, the Calculus of Variations, and the Philosophy of Mathematics. (Three recitations per week.)

In all the classes, the students are subjected to rigid examinations in the class-room, and are carefully trained in making accurate demonstrations at the black-board. Much importance is attached to the original solution of problems so selected as to

afford applications of the principles taught in the class-room. These exercises are required in all the classes weekly or semi-monthly.

Text-Books.

Towne's and Ray's Algebra; Tappan's Geometry, (Ray's series;) Smith's Lefebure De Fourcy's Trigonometry; Puckle's Conic Sections; with Courtenay's Notes, and Lectures by the Professor; Courtenay's Calculus; and Comte's Philosophy of Mathematics.

The whole of the above course is requisite for the Degree of MASTER OF ARTS. The requisites for the Degree of BACHELOR OF ARTS or BACHELOR OF SCIENCE, are the subjects embraced in the Junior and Intermediate Classes, and so much of the Senior course as to include Differential and Integral Calculus.

SCHOOL OF APPLIED MATHEMATICS.

PROFESSOR ALLAN. ASS'T PROFESSOR BERKELEY.

I.—ENGINEERING.

A.—CIVIL ENGINEERING.

The course in Civil Engineering embraces three classes, and is divided as follows:

I. Junior Class.

FIRST DIVISION.

1. Land, Topographical and Geodesical Surveying, Levelling, Determination of Heights and Distances, Laying out Roads and other Engineering works, Theory and use of Instruments. 2. Construction of Roads and Railroads.

(Three recitations per week during the whole session, with Field-practice in afternoon.)

SECOND DIVISION.

1. Descriptive Geometry and its applications to Stone Cutting and Carpentry.

2. Industrial Drawing by Projection and Perspective. 3. Topographical Drawing and Construction of Maps.

(Three recitations per week during the whole session.)

Text-Books.

(In 1st Div.) Gillespie's Surveying, and Roads and Railroads; Henck's Field book for Engineers; Mahan's Civil Engineering. (In 2d Div.) Church's Descriptive Geometry; Dobson on Stone Cutting; Appleton's Drawing, &c.; Smith's Topographical Drawing; Notes of the Professor.

II. Intermediate Class.

1. Properties of Materials. 2. Limes, Mortars, Hydraulic Cements, &c. 3. Resistance of Materials. 4. Earthwork, including Embankment, Excavation, Shafts, Blasting, &c. 5. Foundations. 6. Masonry, including the Construction of Masonry, Brickwork, Stability of Retaining and other Walls, Arches, &c. 7. Carpentry, embracing Joints, Frames, Trusses. 8. Metallic Structures, such as Iron Beams and Roofs; and applications of Tin, Zinc, Lead, &c. 9. Bridges of Wood, Iron, Stone. 10. Tunnels. 11. Flow of Water in Pipes, Sewerage, Reservoirs, Water Supply, Drainage and Irrigation. 12. Canals. 13. River, Harbour, and Coast Works. 14. Orders and Styles of Architecture. 15. Drawing.

(Six lectures per week.)

Text-Books.

The instruction in this class will be largely given by Lectures; but Mahan's Civil Engineering, Stoney on Strains, and Burnell's Hydraulic Engineering, will also be used.

III. Senior Class.

1. Analytical Investigation of Strength of Materials. 2. Theory of Strains in Simple and Compound Beams. 3. General Theory of Bridge Construction, embracing Trussed and Tubular Girders, Suspension Bridges and Arches. 4. Stability of Structures. 5. Hydraulic Engineering. 6. Architecture. 7. Drawing.

(Three lectures per week.)

Text-Books.

Rankine's Applied Mechanics and Civil Engineering; Lectures.

B.—Military Engineering.

In this class will be taught the principles of Fortification and Gunnery.

II.—ASTRONOMY.

The course in this Department embraces two classes:

I. Junior Class.

The time of this class for the first half session is occupied principally with a course of Descriptive Astronomy. It is conducted with reference to the double purpose of meeting the demands of general culture in this direction, and of serving as a useful introduction to the more extensive and special prosecution of the Science. The remainder of the year is devoted to Higher Geodesy and Spherical Astronomy.

Text-Books.

White's Astronomy; Francœur Geodesie.

II. Senior Class.

This class completes a full course of Physical and Mathematical Astronomy. (Three lectures per week.)

Text-Book.

Pontecoulant Systeme du Monde.

The Junior and Intermediate classes in Civil Engineering and the Junior class in Astronomy, together with either the Senior class in Civil Engineering or that in Astronomy are requisite for a Distinguished Proficiency in this School. The Junior, Intermediate, and Senior classes in Civil Engineering, and the Junior class in Astronomy are requisite for the Diplomas of Civil Engineer and Mining Engineer.

SCHOOL OF NATURAL PHILOSOPHY.

PROFESSOR McCULLOCH.

In this school there are two classes:

I. PHYSICS.

This class studies: 1. The Physics of solids, liquids, and airs; 2. Acoustics; 3. Optics; 4. Electricity and Magnetism, with their applications to telegraphic and other purposes; 5. Heat and Steam, with their application to locomotion, machinery, furnaces, and the warming and ventilation of buildings, mines, &c.; 6. The Philosophy of the Inductive sciences. (Six lessons per week.)

Text-Books.

Treatise on Natural Philosophy, by Sir W. Thomson; Bartlett's Acoustics and Optics; and Tait's Thermodynamics.

II. RATIONAL AND APPLIED MECHANICS.

This class studies: 1. Cinematics and the principles of mechanism; 2. Dynamics, and its applications to work done by water, wind, steam, and animal power; 3. Hydrodynamics, mill work, and the resistance to ships, projectiles, &c.; 4. Statics and the construction of machines; 5. Molecular Mechanics, including the theory of Elasticity, Vibrations, Sound, Light, Heat, &c. (Six lessons per week.)

Text-Books.

Bartlett's Analytical Mechanics; Bour Cours de Mecanique et Machines a l'ecole Polytechnique, 1865–1868; and the Wave theory of Light in Airy's Mathematical Tracts. Books of reference will be indicated to the class.

Those who desire to commence this course must have a knowledge of analytical geometry and pursue the study of the differential and integral calculus. Candidates for the engineering degrees must, before entering either of these classes, have studied the French language and descriptive geometry, and must be able to make neat and exact industrial drawings, both in projection and in perspective.

SCHOOL OF CHEMISTRY.

PROFESSOR CAMPBELL. ASS'T PROFESSOR BERKELEY.

In this School there are two classes. The studies are divided as follows:

I. Junior Class.

1. CHEMICAL PHYSICS—Embracing Light, Heat, and Electricity, with the relation of these agencies to each other, and to the science of Chemistry.

2. INORGANIC CHEMISTRY—In which are discussed the use of chemical symbols and nomenclature; the laws of chemical affinity; electro-chemical decomposition; the atomic theory, and the theory of volumes; the chemistry of the metals; the relation of Chemistry to Mineralogy, and the general principles of inorganic analysis.

3. ORGANIC CHEMISTRY—Involving a discussion of the composition and properties of the proximate constituents of plants and animals; the changes produced by fermentation, and by light, heat, and chemical reagents; the theory of compound radicals; the properties of vegetable acids and alkaloids, and the principles and processes of organic analysis.

4. PHYSIOLOGICAL CHEMISTRY—Including the connection of vitality with chemical action in both plants and animals, as illustrated in growth, nutrition, and respiration.

5. An outline history of the origin and gradual development of chemical science.

This class meets the Professor in the Laboratory on six days of every week. Three days are devoted to lectures, illustrated by elaborate experiments; the other three days to recitations on the lectures and text-books.

Solutions of scientific problems, with written exercises and essays on the subjects of study, are assigned frequently throughout the session.

Text-Books.

In Elementary Chemistry "Roscoe's Elements" and "Fowne's Chemistry" (recent edition) are the handbooks; with references to Brande and Taylor, Graham, Regnault, Liebig, Gregory, Miller, and others.

In the Chemistry of plants and animals "Campbell's Agriculture;" "Gregory's Organic Chemistry;" Johnston's "Chemistry of Common Life."

II. Senior Class.

The studies in this class are:

1. The principles and practice of Chemical Analysis.

2. Mineralogy and Geology, according to the course indicated under head of "Course of Natural History and Geology." (Page 40.)

The Senior course is required for the scientific Degrees, or for Distinguished Proficiency in the School, but not for the Degree of A. B.

In Chemical Analysis, Hand Books.—"Bowman's Practical Chemistry" and "Will's Tables," with Fresenius for reference.

An *extra fee* is charged in this class to cover the cost of material consumed by the students in chemical analysis.

SCHOOL OF APPLIED CHEMISTRY.

In this School are taught Metallurgy and the applications of the principles of Chemistry to Agriculture, Mining, Manufacturing, and the Mechanic Arts, together with Vegetable and Animal Physiology.

Until a Professor shall be appointed for this School, the subjects embraced in it will be distributed among the Professors in the other scientific Schools.

Candidates for the Degree of Mining Engineer pursue, in the laboratory of the Professor of Chemistry, a course of blow-pipe and humid analysis of the most important ores and minerals. They are also taught, by the Professor of Physics, the subjects of opening, working, and ventilating mines; cleaning, pulveri-

zing, washing, and reducing the ores of all the more useful metals; the manufacture of iron and steel; the construction of furnaces, &c.; and visits made to important and developed mining regions of the country serve to illustrate practically their theoretical lessons in Geology and Mining.

CIVIL AND MINING ENGINEERING.

The courses in Civil and Mining Engineering are now in full operation, and afford the means of complete and thorough preparation for these important professions. The following schedule shows the Schools included in these courses, and the order in which the Classes should be attended.

I.—Civil Engineering.

(*Including Mechanical and Topographical Engineering and Architecture.*)

This course extends over three years, and students desiring to enter it must have previously completed the Junior course in Mathematics, embracing Algebra, Plane Geometry, and Trigonometry; and must possess a proper knowledge of the English language.

First Year.

Pure Mathematics. *Intermediate Class* ..... Prof. Nelson.
Chemistry ..... Prof. Campbell.
Civil Engineering and Drawing. *Junior Class* ..... Prof. Allan.
French ..... Prof. Joynes.
English ..... Prof. Johnston.

Second Year.

Pure Mathematics. *Senior Class* ..... Prof. Nelson.
Physics and Mechanics ..... Prof. McCulloch.
Civil Engineering and Drawing. *Intermediate Class* ..... Prof. Allan.
French ..... Prof. Joynes.

Third Year.

CIVIL ENGINEERING. *Senior Class*.....Prof. ALLAN.
MINEROLOGY and GEOLOGY.....Prof. CAMPBELL.
PHYSICS and MECHANICS, (*completed*).....Prof. MCCULLOCH.
ASTRONOMY.....Prof. ALLAN.

II.—MINING ENGINEERING.

(*Including Chemical Analysis, Geology, and Metallurgy.*)

First Year.

Same as in preceding course.

Second Year.

PURE MATHEMATICS. *Senior Class*.....Prof. NELSON.
PHYSICS and MECHANICS.....Prof. MCCULLOCH.
CIVIL ENGINEERING and DRAWING. *Intermediate Class*.....Prof. ALLAN.
GERMAN or FRENCH.....Prof. JOYNES.

Third Year.

ANALYTICAL CHEMISTRY.....Prof. CAMPBELL.
MINERALOGY and GEOLOGY.....Do. do.
TUNNELS, SHAFTS, ARCHES, &c.....Prof. ALLAN.
PHYSICS and MECHANICS, (*completed*).....Prof. MCCULLOCH.

Diplomas will be awarded to students in these courses who pass a satisfactory examination, and submit such plans, drawings, specifications, calculations, &c., on some subject or subjects, as may prove their ability to take charge of and direct professional work.

COURSE OF NATURAL HISTORY AND GEOLOGY.

I. Natural History.

PROFESSOR McCULLOCH.

In Natural History, comprising human and comparative Anatomy and Physiology, Hygeine, Descriptive Botany, and Vegetable Physiology, a course of three lectures and recitations per week will be given.

This attractive and important study has been generally neglected except in medical schools. Every person needs the knowledge of his own body requisite to the preservation of its health; and the care of the domestic animals and the cultivation of plants cannot be intelligently conducted by one ignorant of their organization.

This course will be illustrated by a well selected collection of anatomical preparations and diagrams; and animals and plants will furnish facilities for demonstration.

The TEXT BOOKS used are Agassiz and Gould's Zoology, Gray's Botanical works, Dalton's Physiology, and such plates and books of reference on human and comparative Anatomy as will be indicated to the class.

II. Mineralogy and Geology.

PROFESSOR CAMPBELL.

The course of MINERALOGY and GEOLOGY will occupy three hours per week in lectures and recitations.

The study of *Mineralogy* will be directed chiefly to the valuable metallic ores, and such other minerals as are especially useful in the arts. The leading objects will be to make the student familiar with :

1. The external properties of valuable minerals as they are found in the earth. 2. The methods of testing them with chemical reagents, and with the blow-pipe.

3. Their practical value and relation to the arts.

Geology will be taught with reference both to its scientific and practical bearings.

1. As a science, describing the physical structure of the Earth's crust, its various constituents, and the relative position of its valuable minerals. 2. With reference to its practical relation to Mining, Engineering, and Agriculture.

This course will be illustrated by a large and varied collection of all the important ores, and the building materials used in Engineering and Architecture; and by numerous Maps and Sections taken from Reports on the Geology of different States.

It is believed that the knowledge imparted by such a course of instruction as this will be of great service in the rapid and thorough development of the immense mineral resources of our Southern States.

Text-Books.

Dana's Mineralogy; Dana's Geology.

Contributions to the Cabinet of Natural History and Geology are earnestly solicited from the friends of the Institution.

DEPARTMENT OF LAW AND EQUITY.

PROFESSOR BROCKENBROUGH.

This Department was extensively known as the "Lexington Law School" for a number of years prior to the late war, when its exercises were interrupted. Four years since, under the conduct of its founder, the present Professor, it was connected with the College, and has since been in successful operation.

The next session of this School will commence on the first

Monday in October next, and terminate with the regular college session, at the end of June, 1871. There will be a Junior and a Senior course, in each of which three recitations per week will be held during the entire term. These recitations will average three hours per day, and the subjects assigned for each will be discussed orally by the Professor, with all requisite fullness. It will be his duty to illustrate the elementary principles involved, by a practical analysis of leading cases, both English and American. The Common and Statute Law of Virginia, and her system of equity and jurisprudence, will be subjects of special consideration. It will be his desire to generate in the mind of the student a taste for the study of law, as an enlarged and rational system of jurisprudence, and to imbue him with the philosophical spirit that prevades it throughout all its extensive ramifications. Taught to regard law as a noble and refined science, and not merely as a crude collection of arbitrary precedents, the student will proceed to the investigation of its abstruse and subtle principles with a zest that will relieve the study of all its drudgery.

As the session approaches its close, a Moot Court will be organized, in which a variety of legal questions will be discussed, and cases will regularly be matured for trial, from the emanation of the original process to the production of an issue. The Professor will generally preside at the sessions of this Court, and, after argument, proceed to discuss each case argued at the bar, assigning at large the reasons for the conclusions arrived at. Occasionally the Court will be composed of members of the class, who will be expected to deliver opinions either orally or in writing.

Special attention will be given to that extensive class of questions affecting contracts entered into *flagrante bello*, payable in money generally, or, expressly or by implication, in the then existing currency of the country; and to the true principle of adjustment of the rights and liabilities of the parties to such contracts. Questions of this character, infinitely various in the forms of their presentation, will possess, for years to come, a commanding and paramount interest.

The discussion of leading cases in Law and Equity constitutes a prominent and, as is believed, a most valuable feature of the plan of instruction adopted in this School. Very free use is made of those admirable works, Smith's Leading Cases, American Leading Cases, and Leading Cases in Equity; but these works are too voluminous to be adopted strictly as Text-Books.

Students may take the Junior course of Law and pursue studies in the regular collegiate Schools.

Text-Books.

Junior Law.

Sharswood's Blackstone; Stephens' on Pleading; 1st Greenleaf on Evidence.

Senior Law.

Williams on Real Property; Williams on Personal Property; Smith on Contracts, and Adams' Equity.

The Code of Virginia (1860,) and Mathews' Digest are used indifferently in the Junior and Senior courses.

Gentlemen attending this School from other States are earnestly requested to bring with them the revised Statutes, or Codes, of their respective States.

Text-Books supplied to students at wholesale Philadelphia prices, charges for freight by express added.

Terms.

Payable one-half in Advance, one-half 1st February.

For both Courses ..... $100 00 per Session.
Junior Course, alone 50 00

STUDENTS' BUSINESS SCHOOL.

C. M. KOONES, PRINCIPAL.

The instruction in this School includes:

BOOK-KEEPING: Single and Double Entry, with exercises in Individual and Partnership Books, involving practice in Entering, Journalizing, Posting, Balancing, and Closing Accounts and Balance Sheets.

BUSINESS FORMS: Such as Invoices, Receipts, Bills of Lading, Checks, Drafts, Promissory and Negotiable Notes, Endorsements, Accounts-Current, Accounts-Sales, Foreign and Inland Exchange and Commercial Correspondence.

PENMANSHIP.

TUITION:—*Payable in advance.*

COMPLETE COURSE, INCLUDING PENMANSHIP	$20 00
PENMANSHIP, ALONE	10 00

After 1st of February a class is organized in Single Entry Book-Keeping, for which one-half the regular fee is charged.

A Certificate is conferred upon students who complete the course, and pass the required examination.

SCHEDULE OF CLASSES AND HOURS.

	1st Hour.	2d Hour.	3d Hour.	4th Hour.	5th Hour.	6th Hour.
Daily Classes.	Junior Latin S.* Junior Greek S.	Junior Latin S. Jun. Math's S.	Junior Math's S.	Physics. Junior History. Junior Latin S.	Moral Philosopy. Int. Ap. Math's. Junior Greek S. Junior Math's S.	Mechanics. Junior Latin S. Junior Math's S.
Alternate. Monday. Wednesday. Friday.	Senior Latin. Jun. Chem'y II. Jun. English S.	Senior Math's. Eng. Philology. Jun. English S.	Senior German. Int. Latin I. Jun. Chemistry I. Drawing.	Int. Greek I. Junior French S.	Sen. Chemistry I. Int. Math's II. Junior German S.	Senior History. Jun. Astronomy. Junior French S.
Alternate. Tuesday. Thursday. Saturday.	Senior Greek. Senior English I. Int. Math's I.	Senior French. Jun. English S.	Int. Greek II. Jun. Chemistry I. and II. Jun. English S. Jun. German S.	Int. Latin II. Spanish. Sen. Ap. Math's.	Natural History. Junior French S.	Eng. Literature. Sen. Chemistry II. Junior Ap. Maths. Junior French S.

*S—Section.

EXAMINATIONS.

These are:

1. The general Examinations, Intermediate and Final, held, the former near the middle, and the latter near the close of the session.

2. The special Examinations for Degrees, or for Certificates of Proficiency, held near the close of the session.

These examinations are partly written and partly oral, and are conducted by the Professor of the School in the presence of the President and a committee of the Faculty. A committee of the Trustees is also appointed to attend the general examinations, Intermediate and Final. No Certificate of any kind is conferred, except after thorough and satisfactory examination upon the prescribed subjects.

No student is permitted to absent himself from any one of his examinations.

CERTIFICATES AND DIPLOMAS.

1. As evidence of *distinguished attainments* in any CLASS, within any of the SCHOOLS, a CERTIFICATE OF DISTINCTION will be conferred.

2. As evidence of *satisfactory attainments* in any SCHOOL, or complete subject therein, a CERTIFICATE OF PROFICIENCY will be conferred, with the title of PROFICIENT.

3. As evidence of *distinguished attainments* in any SCHOOL, or complete subject therein, a CERTIFICATE OF DISTINGUISHED PROFICIENCY will be conferred, with the title of DISTINGUISHED PROFICIENT.

4. As evidence of the scientific and professional attainments required for CIVIL ENGINEERING or for MINING ENGINEERING, a

DIPLOMA will be conferred, with the professional title of CIVIL ENGINEER, or MINING ENGINEER.

5. When any student has made distinguished attainments in any *three* SCHOOLS, or distinct CLASSES of different SCHOOLS, within one session, a special Certificate will be conferred on him, with the title of DISTINGUISHED UNDERGRADUATE.

DEGREES.

I. BACHELOR OF PHILOSOPHY (B. P.) The requirements for this Degree are *Certificates of Proficiency* in ENGLISH LANGUAGE and LITERATURE; MODERN LANGUAGES; MORAL PHILOSOPHY, and HISTORY; and in LATIN, or GREEK, or MATHEMATICS; and in CHEMISTRY, or NATURAL PHILOSOPHY, or APPLIED MATHEMATICS; and a suitable Essay or Oration, which shall be read or delivered at the Public Commencement, if so required by the Faculty.

II. BACHELOR OF SCIENCE (B. S.) The requirements for this Degree are *Certificates of Proficiency* in MATHEMATICS; APPLIED MATHEMATICS: CHEMISTRY, including MINERALOGY and GEOLOGY; NATURAL PHILOSOPHY, including ANALYTICAL MECHANICS; FRENCH; and in ENGLISH, or MORAL PHILOSOPHY, or HISTORY, or LATIN, or GREEK; and a suitable Essay or Oration, as above.

III. BACHELOR OF ARTS (A. B.) The requirements for this Degree are *Certificates of Proficiency* in LATIN; GREEK; ENGLISH; MORAL PHILOSOPHY; MATHEMATICS, and ELEMENTARY ASTRONOMY; and in HISTORY, or MODERN LANGUAGES; and in CHEMISTRY, or NATURAL PHILOSOPHY, or APPLIED MATHEMATICS, and a suitable Essay or Oration, as above.

IV. MASTER OF ARTS (M. A.) To attain this Degree, the highest literary honour conferred by the College, the student must have received *Certificates of Proficiency* in LATIN; GREEK;

ENGLISH; MORAL PHILOSOPHY; HISTORY; MATHEMATICS; CHEMISTRY; NATURAL PHILOSOPHY; and in MODERN LANGUAGES and ENGLISH LITERATURE, or APPLIED MATHEMATICS; and *Certificates of Distinguished Proficiency* in at least SEVEN ENTIRE SCHOOLS; have passed a satisfactory Review Examination on all the subjects included; and furnished a suitable Essay or Oration, which shall be read or delivered at the Public Commencement, if so required by the Faculty.

V. BACHELOR OF LAW (B. L.) This degree will be conferred on Graduates in the DEPARTMENT OF LAW AND EQUITY.

COLLEGE HONOURS.

I. RESIDENT MASTERSHIPS.

The Faculty appoint annually three Graduates of the degree of Master of Arts, with the title of RESIDENT MASTERS, under the following regulations:

1st. Each appointment shall be for two years.

2d. Said Resident Masters shall be required to pursue at least one course of study at Washington College.

3d. They shall be free from all charges for tuition and other college fees, and during their term of Residence shall receive an annual income from the college Treasury of two hundred dollars each.

4th. They shall be required to teach in the College, *ex officio*, not exceeding one hour per day.

5th. They shall also prepare and deliver such essays, orations, &c., as may be required of them by the Faculty, and in other respects shall be subject to such general regulations as the Faculty may prescribe.

II. Honourary Scholarships.

These are intended to reward high attainments in scholarship and at the same time to promote and secure general meritorious conduct. They are five in number, and are distributed as follows: One appointed by the President from the students at large; two are nominated by the Professors of Latin, Greek, and Mathematics; one by the Professors of Modern Languages, History, and Moral Philosophy; and one by the Professors of Applied Mathematics, Natural Philosophy, and Chemistry. These nominations must be confirmed by the Faculty.

Students appointed to these Scholarships are entitled to attend the College for the next session without paying tuition and college fees.

III. Prize Medals.

For the Robinson Prize Medals, which are three in number and of equal value, there shall be annually proposed special Prize Examinations, or Subjects for Competition, as follows:

1. The first shall be within the Schools of Latin, Greek, and Mathematics.
2. The second shall be within the Schools of Natural Philosophy, Chemistry, and Applied Mathematics.
3. The third shall be within the Schools of Modern Languages, English Language and Literature, History, and Moral Philosophy.

These Examinations, or Competitions, shall be open to all the Students within the Schools aforesaid; and the Medals, numbered as above arranged, shall be awarded by the Professors of the several Schools named, subject to the conditions imposed by the bequest: Provided, that no Student shall receive the same Prize twice.

IV. COMMENCEMENT ORATIONS.

1. The CINCINNATI ORATION shall be awarded to that *Graduate* who shall be judged by the Faculty to have attained the highest degree of general scholarship.

2. The VALEDICTORY ADDRESS shall be awarded to that *Graduate* who shall be selected by his fellow graduates.

3. An Oration, to be called the COLLEGE PRIZE ORATION, shall be awarded by the Faculty to that *Student* who may have submitted the best Essay or Oration, in such manner as may be prescribed by the Faculty: Provided, that to no Student shall more than one of the above Orations be awarded in one year.

4. Such additional Essays or Orations shall be delivered as may be selected by the Faculty from among those that are submitted by Graduates, as in the requirements for Degrees.

V. GRADATION.

In every list of Distinctions or Proficients, in any Class or School, the most distinguished students, to a number not exceeding *one-third* of the whole, may be announced in the order of relative standing, at the discretion of the Faculty.

PRIZE SCHOLARSHIPS AND SPECIAL PRIVILEGES.

I. In order to promote the cause of education and of sound learning, the Board of Trustees have inaugurated a system of PRIZE SCHOLARSHIPS to be conferred on High Schools and Academies throughout the country. By the terms of these Scholarships the student standing first in such High School or Academy, is entitled to enter Washington College for one year free of all college and tuition fees. A number of these Scholarships have been already established, and it is hoped that liberal patrons of learn-

ing, by endowing others, will enable the Board to extend still further the benefits of the system.

II. The Board of Trustees have authorized the Faculty to appoint to Scholarships a number of young men intending to make practical printing and journalism their business in life. These Scholars are to be free from tuition and college fees, on condition that when required by the Faculty they shall perform such disciplinary duties as may be assigned them in a printing office, or in other positions in the line of their profession, for a time equal to one hour in each working day.

III. By enactment of the Board of Trustees, a credit for the college and tuition fees, amounting to about one hundred dollars annually, is extended to such meritorious young men, seeking the advantages of the Institution, as are unable to pay the same, and their bond taken, payable in not less than two nor more than six years from the probable termination of their collegiate course.

IV. By like enactment, the Faculty are authorized to admit into the College as students, free of charge for tuition or college fees, candidates for the Christian ministry: Provided, the said candidates shall be unable to pay these charges, and that they shall be recommended by some competent ecclesiastical authority as suitable persons to be educated for the ministry. The Faculty may at any time withdraw this privilege from any student who may prove unworthy of it; and if any student who has been admitted on these terms shall afterwards decline entering the ministry, the above fees shall be held as debts due the College, according to the conditions provided with reference to the credit extended to meritorious indigent young men. (Paragraph III., above.)

The College does not furnish board to students holding Scholarships, or to those who are received on credit, or to those received without charge for tuition.

ADMISSION.

Applicants for admission who have been students in other Institutions, must produce evidence of having left them in good standing.

Applicants shall report themselves to the Faculty within twenty-four hours after their arrival, and none shall be permitted to remain more than two days at College without matriculating, unless specially indulged by the Faculty.

COURSE OF STUDY.

The course of study is *elective*, each student being allowed to pursue such studies as his parent or guardian may select, if found prepared. But each student is required to attend at least eighteen lectures a week, or their equivalent; and no student is allowed to leave any School without permission of the Faculty.

When in any School there are several classes, students are assigned to their classes at the beginning of the session, according to their qualifications, as far as these can be ascertained. At the end of the first month the classes are re-organized, as may be found necessary, and a permanent classification established. A student will, however, be liable at any time to a transfer to a lower class in the School, when it is deemed necessary by the Professor.

While the course of study is elective, students will yet receive the advice of the President and Faculty with reference to the choice and arrangement of their studies, according to the circumstances of each particular case. By a proper arrangement, the entire course of study requisite for the Baccalaureate Degrees can be completed in the time usually required for a Collegiate Course, or in less time, if the student enters well advanced.

PLAN OF INSTRUCTION.

The plan of instruction is by recitations from text-books and by lectures. In the less advanced classes, the instruction is conducted chiefly by text-books. In the more advanced, after the student has acquired the habit of attention, lectures form a more prominent feature.

The Junior and Preparatory classes are divided into sections of moderate size, with a view to ensure the more frequent examination of each student. This division of a class into sections is based, as far as practicable, upon the relative standing of its members.

GOVERNMENT.

The government of the College is administered by the President and Faculty, in accordance with a Code of Laws enacted by the Board of Trustees, a copy of which is furnished to each student upon matriculating. The President devotes himself to the duties of his office, occupying a room in the college buildings, to which the students have at stated times free access. He attends all examinations, presides at all the meetings of the Faculty, and by the Reports of the several Professors, is made acquainted with the standing and deportment of each student. All cases of irregularity receive his personal attention.

Students receive the admonition and counsel of the President before being subjected to any penalty, except in case of flagrant offences. Those who are habitually neglectful of their duties, or who do not regularly attend their lectures, will be required to withdraw from the College.

No student is allowed to leave the town during the session, without the permission of the President.

REPORTS TO PARENTS AND GUARDIANS.

Weekly Reports of the progress and attendance of the students are made to the President. At the end of every month a Circular is sent to the parent or guardian of each student, showing his absolute and relative standing in his several classes, the number of his absences from class, and any other facts that it may be deemed proper to communicate. At the close of each half-session, a similar Circular is sent, setting forth the results of his examinations, as well as his class standing and absences for the preceding term.

RELIGIOUS AND MORAL CULTURE.

Religious services are held every morning in the College Chapel, by the clergymen of Lexington in rotation.

The students are required to attend these exercises, and are expected to attend the church of their choice at least once on Sunday. Opportunities are also afforded for attending Bible classes every Sunday.

A large and flourishing "Young Men's Christian Association" exists among the students, and has been found a most efficient agent in promoting their moral and religious welfare.

GYMNASTICS, &c.

Boat Clubs have been organized among the students, and fine rowing is to be had on the North River, near Lexington.

Every proper encouragement is given by the Faculty to these and other manly recreations.

LIBRARY.

Valuable additions have been made to the Library from several sources, since the close of the war. Conspicuous among these is a large and valuable contribution of scientific and literary works, made by RATHMELL WILSON, Esq., of Philadelphia; also a liberal donation of foreign works by several English Publishers.

Arrangements exist by which the number of books is increased year by year. Students have free access to the Library.

APPARATUS AND CABINET.

The philosophical and chemical Apparatus has been already so far restored as to meet the immediate wants of the scientific Departments, and arrangements have been effected by which large accessions are constantly being made.

Very valuable illustrative apparatus for the use of the classes in Astronomy has recently been secured.

The Cabinet of minerals contains a large variety of specimens suitable for illustrating the sciences of Mineralogy and Geology. It is hoped that the friends of the College will continue to send donations of the finer and rarer kinds of specimens, until the Cabinet is restored to its former high degree of perfection.

LITERARY SOCIETIES.

The Literary Societies are: THE GRAHAM PHILANTHROPIC SOCIETY, organized in 1809; and, THE WASHINGTON LITERARY SOCIETY, organized in 1812. These Societies meet each once a week, for debate and other literary exercises. Each Soci-

ety has its own hall and library room, and their two libraries contained, before the war, an aggregate of about 4,000 volumes. Efforts are now being made, with the aid of friends abroad, to restore these libraries to their former condition. The influence of these Societies upon the character and culture of the students, is highly estimated both by the Faculty and by the students themselves.

Each Society celebrates publicly the anniversary of its foundation: the Graham Society on the 19th of January; the Washington Society on the 22d of February; and each Society appoints, from its own members, an Orator to represent it at the Commencement. On this occasion, also, a gold medal is publicly conferred, by each Society, upon its best *debater;* and an Address is delivered before the two Societies jointly, by some gentleman chosen by them for this purpose.

Commencement, 1869.

GRAHAM SOCIETY.	*WASHINGTON SOCIETY.*
Medalist:	*Medalist:*
George B. Peters, Tenn.	T. S. Wilkinson, La.
Orator:	*Orator:*
James G. Wintersmith, Jr., Ky.	C. D. Hogue, Ala.

Address:

Rev. R. A. Holland, Baltimore, Md.

Anniversaries, 1870.

GRAHAM SOCIETY.	*WASHINGTON SOCIETY.*
Orator:	*Orator:*
A. H. Hamilton, West Va.	R. A. Wilkinson, La.
Debaters:	*Debaters:*
E. G. Logan, Ky.	S. D. McCormick, Ky.
J. Peyton Hobson, Va.	J. M. Grey, Ky.
D. L. Wilson, Va.	J. J. Lloyd, Va.
R. J. Richey, Texas.	J. W. Walden, Ala.

ALUMNI ASSOCIATION.

The Alumni of the College have had an Association in successful operation for many years. Its object is to keep alive among the Alumni the sentiment of affection for their Alma Mater, and to unite the graduates of successive years by a common tie of fellowship. Its annual meetings are held at the Commencement, when, after the transaction of business, an Anniversary Oration is pronounced by some Alumnus chosen by the Society and an Alumni Dinner is celebrated. The following is the present organization:

Major JAMES B. DORMAN, *President.*

W. A. ANDERSON, T. J. KIRKPATRICK, *Vice Presidents.*

D. C. LYLE, *Secretary.* J. W. BARCLAY, *Treasurer.*

Executive Committee.

A. T. BARCLAY, *Chairman.*

DR. JOHN D. MYERS, C. A. GRAVES,

D. E. MOORE, JR., E. BERKELEY.

Alumni Orator, 1869.—Rev. C. B. DAVIDSON, Indiana.

COMMENCEMENT EXERCISES.

These take place at the close of the session. On the Sunday preceding, a Baccalaureate Sermon is preached before the graduates and the students at large. On Commencement day the names of the students distinguished in the several classes are announced; the Diplomas, Certificates of Proficiency, and College Prizes are publicly awarded by the President; and the Addresses of the graduates, and the Prize Orations and Essays, are delivered. The celebrations of the Literary Societies, and of the Society of the Alumni, as above noted, also take place in Commencement Week.

Commencement, 1869.

Baccalaureate Sermon.

Rev. John L. Girardeau, D. D., South Carolina.

Cincinnati Oration.

M. W. Humphreys, M. A., West Virginia.

College Prize Oration.

C. C. Garrett, A. B. and B. P., Texas.

Law Class Oration.

John T. Pendleton, B. L., Kentucky.

Valedictory.

J. P. Strider, M. A., West Virginia.

LENGTH OF SESSION.

The next session will commence on the third Thursday in September, 1870, and continue without interruption until the fourth Thursday in June, 1871. The second half-session begins on the first of February.

EXPENSES.

Tuition, including three Schools	$60 00
Each additional School	10 00
Extra fee for the School of Modern Languages	10 00
Matriculation fee, servants' attendance, use of Library, &c	35 00
Room rent	10 00

Students in Applied Chemistry, and in Civil Engineering (in the School of Applied Mathematics), pay an extra fee of $15, in each department, for special instruction required in these departments.

All the above fees are to be paid in advance.

Each student shall be required to attend three full Schools, or their equivalent, unless specially excused by the Faculty.

Within two weeks after matriculation, students may substitute one School for another, by the consent of the Faculty, without additional charge; but after that time such change will not be permitted except upon the payment of the additional fee.

When a student is necessarily withdrawn from College on account of sickness, before the beginning of the second half-session, one-half his tuition and College fees shall be refunded, but no fees are refunded after that time.

Students entering on or after the first of February, are charged only half the regular fees. No reduction is made on account of late entrance in either half-session.

The occupants of each of the rooms in the College buildings are required to make a contingent deposit of $25 with the Proctor for fuel, which is furnished at cost.

Board and lodging, including fuel, can be had in the best families at from $20 to $25 per month; board, for meals alone, either at the College Hotel or at private houses, at from $15 to $20. Payment for board is required to be made quarterly in advance. The necessary expenses, exclusive of clothing and books, need not exceed $325.

Students can lodge in the College buildings, furnishing their own rooms, and board in the town; or lodge and board in private families, in the town or in the vicinity.

The students shall take boarding at such private houses only as the Faculty shall approve, and the Faculty may, at any time, require a student to change his boarding.

As the lavish expenditure of money leads to many evils, parents are urged to limit their sons in their allowance of pocket money. To secure this end, it is recommended that parents direct their sons to deposit their funds with the Treasurer, who is authorized to receive them.

INSTRUCTION DURING VACATION.

Students who desire to make special preparation for entering the College classes the ensuing session, can board at Lexington during the summer months, and attend the classes organized during the vacation. These classes are conducted by the Assistant Professors of the College, or other persons specially authorized for the purpose, and are under the supervision of a committee of the Faculty. Students who have completed the summer course will be examined at its close for admission into the regular College classes.

TEXT-BOOKS.

All the Text-Books used in the College can be bought in Lexington at the usual retail prices.

ROUTES.

Lexington can be reached by Stage from Staunton or Goshen, on the Chesapeake and Ohio Railroad, or from Bonsack's on the Virginia and Tennessee Railroad, or by Packet from Lynchburg.

SCHOLARSHIPS.

To each person who will contribute to the endowment of the College the sum of *two hundred and fifty dollars*, there will be issued a Certificate reciting the fact, signed by the Treasurer, with *four* coupons attached. Each of these coupons, when re-

deemable, will be received in payment of all tuition and College fees, except diploma fees and the fees in the School of Law.

The first coupon will be dated on the 1st of September next succeeding the date of contribution, and the remaining coupons on the 1st of September of each succeeding year.

To any person who shall contribute *five hundred dollars*, there will be issued a like Certificate with *ten* coupons attached, and to any person contributing *one thousand dollars*, a Certificate with *twenty-four* coupons attached will be issued, each coupon dated in succession as above.

Holders of Limited, Life, or Family Scholarships, may, at their option, convert the same into Certificates of like value, detaching a coupon for each year that students have been entered on said Scholarships, upon payment of bonds for said Scholarships, when the same have not been paid.

PHYSICAL SURVEY.

The Board of Survey of Washington College, appointed by the Trustees, have been engaged for the past two years in collecting material for maps of the counties and of the State. These materials are worked up under the direction of the Board by Major J. Hotchkiss, their Topographical Engineer, and the maps will be published from time to time, as the arrangements for that purpose can be made. Another object of the Board is to collect all mineralogical, geological, or other information that may have a bearing upon the development of the resources of the State. They request the aid of their friends in this matter, who can greatly assist by forwarding such information as they may possess, to the board. Geological and mineralogical specimens, illustrating the different counties and sections, if forwarded to the President of the Board (General R. E. Lee) will be thankfully received and placed in the cabinet with names of donors attached.

A LIST OF BOOKS GIVEN TO THE LIBRARY DURING THE PAST YEAR.

Cambridge University Ed. of Euclid, 1 vol., William and Mary College, Virginia.

High School Ed. of Euclid, 1 vol., William and Mary College, Virginia.

Paley, 1 vol., William and Mary College, Virginia.

Cambridge Exam. Papers, 1 vol., William and Mary College, Virginia.

New Jersey and the Rebellion, 1 vol., Hon. S. H. Hunt, Newton, New Jersey.

Geology of New Jersey, 1 vol., Hon. S. H. Hunt, Newton, New Jersey.

Concilii Plenarii Baltimorensis II, 1 vol., John Murphy, Baltimore, Maryland.

Report of the Paris Exposition, 13 vols., M. Chevalier, Paris.

Nautical Almanac for 1871, 1 vol., Captain J. H. C. Coffin, U. S. Navy.

Journal of the General Assembly of the Protestant Epis. Church, 1 vol., Rev. Wm. S. Perry, D. D., Geneva, New York.

Full set Coast Survey Reports, 15 vols., Prof. Hilgard.

Full set Agr. Bureau Reports, 23 vols., Hon. Horace Capron.

Papers of Engineer Department, 6 vols., Gen. Humphreys, U. S. A.

Reports Bureau of Education, 1 vol., Com. Barnard.

McKenney's N. A. Indians, 3 vols., L. J. McCormick, Chicago, Illinois.

Lee's Memoirs of the War in the So. Dept., 1 vol., Gen. R. E. Lee.

Reports U. S. Commission of the Paris Exposition, 1 vol., Hon. T. C. McCreery, Kentucky.

Sand's Report of the Solar Eclipse 1869, 1 vol., Chief of Bureau of Navigation.

Part of the Library of the late Rev. Mr. Baber of Georgia, 136 vols., Mrs. Mary Baber, Macon, Georgia.

Resources of the Southern Fields and Forests, 1 vol., Dr. F. Peyre Porcher, S. C.

Dr. William Anderson's Works, 3 vols., William Logan, Esq., Glasgow, Scotland.

Words of Comfort, 1 vol., William Logan, Esq., Glasgow, Scotland.

Night: A Poem. 1 vol., William Logan, Esq., Glasgow, Scotland.

Reports of Confederate War Department, 1 vol., John W. Fuller, Lexington, Virginia.

General Joseph E. Johnston's Rep't, 1 vol., John W. Fuller, Lexington, Virginia.

DONATIONS TO THE MINERAL AND GEOLOGICAL CABINET.

A large variety of Ores, fossils, &c., from different countries: Daniel Conrad, M. D., Winchester, Virginia.

A large variety of ores, marbles, fossils, &c.: Prof. Baer, Maryland.

Some rare fossils and mineral specimens: Col. Thomas H. Ellis, Richmond, Va.

A large variety of gold, silver, copper, and tin ores, with other minerals: Hancock Johnston, California.

A great variety of gold, silver, copper, and mercury ores, specimens of silicified wood, &c.: J. M. Frey, M. D., California.

Specimens of copper and silver ores: George H. Willard, California.

A variety of minerals and fossils from Taylor county, Kentucky: E. A. Cheek.

An assortment of the iron and zinc ores of New Jersey: Joseph H. Hunt, Newton, New Jersey.

Specimens of manganese and other minerals: Col. B. J. Jordan, Virginia.

A variety of minerals and fossils from middle Tennessee: Joseph Choate, Esq., Charlotte, Tennessee.

A large and valuable specimen of gold and silver ore: Mrs. J. A. Luckett, Idaho Territory.

Some specimens of galena, &c., from Potisi Lead Mines, Missouri: M. R. Collins, St. Louis, Missouri.

A variety of mineral and fossil specimens from various localities: Miss Virginia E. Davidson, Maryland.

Specimens of gold and silver ore: J. A. McDaniel, Idaho Territory.

A collection of the fossils of middle Tennessee: Robert A. McNeilly, Tennessee.

Specimens of crystalized and snowy gypsum from Mammoth Cave, Kentucky; also, lead and zinc ores from Virginia: Prof. Joseph B. Walker, Louisville, Ky.

A variety of fossils from the "Bone Phosphate Deposit" near Charleston, South Carolina: L. C. Desaussure, South Carolina.

A large collection of geological specimens from different localities: Rev. W. H. Ruffner, Virginia.

A variety of lead and zinc ores from Union Mines, Wythe county, Virginia: John C. Raper, Superintendent.

Many other donations of one or more specimens have been made, for which the donors have the sincere thanks of those interested in the Scientific Department of the College.

APPENDIX.

Extension of the Scientific and Practical Departments of Washington College.

At the request of the Board of Trustees the following plan for the extension of the Scientific and Practical Departments of Washington College was prepared one year ago. Several of these departments, as will be seen from the catalogue, are now in operation, and the endowment of others is in progress. It is the design of the Board to carry forward the execution of the plan, until complete, as rapidly as the means are obtained:

Washington College,
Lexington, Va., 8th January, 1869.

Gentlemen:

I transmit herewith the report on the extension of the Scientific and Practical Departments of the College, prepared in accordance with the resolution passed at the last meeting of the Board of Trustees.

The main points of the plan presented are as follows:

1st. The establishment of new Departments of Agriculture, of Commerce, and of Applied Chemistry.

2d. A more complete development of the Engineering Schools now in operation, so that to the courses in Civil and Mining Engineering shall be added a distinct course in Mechanical Engineering, to embrace, besides Machinery, the most important branches of Practical Mechanics.

3d. The opening of a farm and workshops in connection with the instruction in Agriculture, industrial Mechanics, and practical Chemistry.

The new departments proposed (Agriculture, Commerce, and Applied Chemistry,) are believed to be needed in the present condition of the country. Agriculture is, at present, the most im-

portant interest of the Southern people, and must continue so for years to come. No effort, therefore, should be spared to advance it, and to extend to it all the advantages which science has bestowed upon manufactures. An Agricultural school, where scientific principles and processes may be applied and illustrated, will be of efficient service. Similar schools have been found useful elsewhere, and the absence of any such in our State furnishes an additional argument for its organization. The establishment of a school of Applied Chemistry is to carry out the plan of the Board of Trustees, adopted sometime since. In recommending a Commercial School, it is proposed, not merely to give instruction in bookkeeping and the forms and details of business, but to teach the principles of Commercial Economy, Trade, and Mercantile Law. Such a school may, with great advantage, be added to the schools of the College, as many students may by its means prepare themselves for business pursuits while obtaining such scientific and literary culture in the other schools, as time and opportunity may allow.

The additional course in Engineering is necessary, in order to relieve the other courses, and to secure more complete instruction in machinery and the other branches of practical mechanics. It is proposed to establish a workshop in this department, where students may become practically acquainted with the use of tools and the working of machinery, and thus add practical to theoretical knowledge.

The great object of the whole plan is to provide the facilities required by the large class of our young men, who, looking to an early entrance into the practical pursuits of life, need a more direct training to this end than the usual literary courses. The proposed departments will also derive great advantage from the literary Schools of the College, whose influence in the cultivation and enlargement of the mind is felt beyond their immediate limits.

The establishment of such departments would, I believe, add greatly to the importance and usefulness of the College.

Respectfully submitted,

R. E. Lee, *Pres. W. C.*

To the Finance Committee of the Board of Trustees.

REPORT.

WASHINGTON COLLEGE,
January 8, 1869.

To General R. E. LEE, *President:*

DEAR SIR:

The department of Applied Science should be so organized as to give thorough instruction in: 1st. Agriculture; 2d. Commerce; 3d. Civil and Mechanical Engineering; 4th. Mining and Applied Chemistry. And these professional courses should respectively embrace the following sub-divisions or subjects of study:

I.—COURSE OF AGRICULTURE,

Consisting of: 1st. Vegetable and animal anatomy and physiology, or the laws of nutrition, growth and health of plants and animals; 2d. Descriptive botany and zoology; 3d. Zootechny, or the raising, improvement and management of the domestic animals; 4th. Arboriculture, horticulture and agriculture; 5th. Pomology, or the culture of fruits, making of wine, cider, vinegar, &c.; 6th. Geometry, linear drawing and land surveying; 7th. Rural engineering, or mechanics and geometry applied to the construction and use of agricultural improvements and machines, buildings, walls and fences, also to road-making, draining and irrigation; 8th. Rural economy, or book-keeping, arithmetic, &c., applied to farm accounts and management; 9th. Penmanship; 10th. The law of titles, contracts and accounts; 11th. The preparation of manures and composts; 12th. Elementary chemistry, and chemistry applied to the analysis and fertilization of soils; 13th. The use of tools practically taught.

II.—COURSE OF COMMERCE,

Consisting of: 1st. Mathematics of accounts, exchange, insurance, annuities, compound interest, &c.; 2. Geometry and drawing; 3d. Book-keeping and penmanship; 4th. Commercial correspondence, and the correct use of the English language; 5th. Geography ap-

plied to production and commerce; 6th. Commercial technology, or the productions of mechanical and chemical manufactures as articles of trade; 7th. The elements of commercial law, or law of bills, notes, contracts, insurance, corporations, bailments, shipping, &c.; 8th. Commercial economy, or the administration and financial management of commercial enterprises, banks, insurance and joint stock companies, railroads, canals, ships, steamers, telegraphs, &c.; 9th. Commercial history and biography; 10th. Modern languages.

III.—Civil and Mechanical Engineering.

This School should embrace two distinct courses: 1st. Civil Engineering; 2d. Mechanical Engineering; sub-divided into subjects as follows:

1. *Course of Civil Engineering.*

To comprise: 1st. Mathematics, pure and applied; 2d. Descriptive geometry and stereotomy; Linear, perspective and topographical drawing; 4th. Chemistry; 5th. General and industrial physics; 6th. Rational and applied mechanics; 7th. Cinematics, or the principles of mechanism; 8th. Land, topographical and geodetical surveying; 9th. Levelling, and the location of roads, canals, &c.; 10th. Elementary and spherical astronomy; 11th. Construction of roads, railroads, canals, bridges, arches, culverts, aqueducts, &c.; 12th. Mortars, cements and building materials; 13th. Strength and resistance of materials; 14th. Carpentry and masonry; 15th. Structures in iron and other metals; 16th. Hydraulic engineering, applied to the supply of water by reservoirs, aqueducts, pipes, &c., also, to the improvement of rivers and channels, levees, canals, dams, harbours, docks, coast-works, &c.; 17th. Industrial geology and metallurgy; 18th. The use of tools practically taught; 19th. History, theory and practice of architecture; 20th. Industrial economy, or the development and administration of railways, canals, manufactories, &c.; 21st. French and English languages.

2. *Course of Mechanical Engineering*,

To embrace: 1st. Mathematics, pure and applied; 2d. Descriptive geometry and drawing; 3d. Chemistry; 4th. General and industrial physics; 5th. Rational and applied mechanics; 6th. Cinematics, or the principles of mechanism; 7th. Strength and resistance of materials; 8th. Mortars, cements and building materials; 9th. Carpentry and masonry; 10th. Architecture; 11th. Structures in iron and other metals; 12th. Construction of steam engines and locomotives; 13th. Construction of mills, factories, water-wheels, &c.; 14th. Construction of machines, tools, agricultural implements, &c.; 15th. Metallurgy and industrial geology; 16th. The use of tools practically taught; 17th. Economy of machinery and manufactures; 18th. French and English languages.

IV.—Mining Engineering and Applied Chemistry.

In this School there should be also two separate courses: 1st. Of Mining and Metallurgy; 2d. Of Chemistry applied to the Arts:

1. *Course of Mining and Metallurgy*,

To consist of: 1st. Mathematics, pure and applied; 2d. Descriptive geometry and drawing; 3d. Chemistry; 4th. General and industrial physics; 5th. Rational and applied mechanics; 6th. Strength and resistance of materials; 7th. Mortars, cements, and building materials; 8th. Carpentry and masonry; 9th. Structures in iron and other metals; 10th. Cinematics, or principles of mechanism; 11th. Use of tools and chemical manipulations; 12th. Construction of steam engines, and of mining and metallurgic machines; 13th. Working or exploitation of mines; 14th. The manufacture of iron, steel, &c.; 15th. Construction and use of furnaces, crucibles, &c.; 16th. Metallurgy and industrial geology; 17th. Mineralogy and crystallography; 18th. Docimasy, and the analysis of ores, minerals, &c., by the wet method; 19th. Economy and management of mining and metallurgic enterprises; 20th. French and English languages.

2. *Course of Chemistry Applied to the Arts,*

To consist of: 1st. Elementary mathematics; 2d. Linear drawing; 3d. General and industrial physics; 4th. General and analytical chemistry; 5th. Mineralogy and crystallography; 6th. Industrial geology and metallurgy; 7th. Botany, zoology, and comparative anatomy; 8th. Physiological chemistry, vegetable and animal; 9th. The use of the mouth blow-pipe; 10th. Glass-blowing, with the enameller's lamp; 11th. The use of tools practically taught; 12th. Photography; 13th. Chemical technology, or the manufacture of acids, alkalies, salts, glass, pottery, illuminating gas and oils, soaps, paints, varnishes, dyes, drugs, fermented and distilled liquors, vinegar, sugar, starch, bread, gelatine, leather, etc.; 14th. Economy and the management of chemical manufactures.

Students who complete either of the above courses will receive professional diplomas, equivalent to those of Civil and Mining Engineer, already established. And those who, for want of time or other reason, shall study only part of either course, will receive certificates of progress or proficiency for such part.

It is very important that the instruction in these professional courses be made as practical as possible; and, to that end, that there be annexed to these Departments a farm and garden, a mechanical workshop, and a laboratory or workshop for metallurgic and chemical operations. The students can then perform such work and examine such operations as their studies may demand. This work may, and should be made remunerative, at least sufficiently so to prevent said farm and workshops from being an expense and burden to the funds of the College.

The farm and garden, rightly managed by a skilful superintendent, and the mechanical workshop, in which agriculture and other implements may be made, should at least pay expenses. Even the laboratory, if judiciously conducted, may be self-sustaining, instead of requiring heavy appropriations and fees to pay for costly experiments and destroyed apparatus; which has been the difficulty generally encountered in imparting instruction in practical chemistry to young and unskilful beginners—a difficulty which has often com-

pelled this mode of instruction, confessedly the best, to be reluctantly abandoned, even in institutions amply endowed.

In the mechanical studies a large portion of time should be given to the neat and exact execution of working drawings of machines, masonry, carpentry, &c.; without skill in which essential labor, no one is qualified to take charge of works of construction, or superintend industrial establishments, in such a manner as is called for by the present advanced state of the arts.

Respectfully submitted by

R. S. McCulloch,
A. L. Nelson,
Wm. Preston Johnston,
J. L. Campbell,
Wm. Allan,
Committee.

CALENDAR.

Session 1869–'70.

Baccalaureate Sermon.....19th June, 1870.
Final Celebration of the Literary Societies.....21st June, 1870.
Annual Meeting of the Alumni Association.....21st June, 1870.
Stated Meeting of the Board of Trustees.....21st June, 1870.
Annual Address before the Alumni Association.....22d June, 1870.
Commencement Day, Closing Exercises of the Session, Address before the Literary Societies.....23d June, 1870.

Session 1870–'71.

Opening of the Session.....15th Sept., 1870.
Anniversary of the Graham P. Society.....19th Jan., 1871.
Anniversary of the Washington L. Society.....22d Feb., 1871.
Baccalaureate Sermon.....18th June, 1871.
Final Celebration of the Literary Societies.....20th June, 1871.
Annual Meeting of the Alumni Association.....20th June, 1871.
Stated Meeting of the Board of Trustees.....20th June, 1871.
Annual Address before the Alumni Association.....21st June, 1871.
Commencement Day, Closing Exercises of the Session, Address before the Literary Societies.....22d June, 1871.

ERRATUM.

On page 45, in "Schedule of Classes," in 3 hour, between "Senior German" and "Int. Latin I," insert "Senior English II."

PIEDMONT AND ARLINGTON
Life Insurance Company.

LOOK AT EXHIBITS!

1ST. FROM OFFICIAL REPORTS IS MADE THE FOLLOWING LOSSES OF OTHER COMPANIES, COMPARED WITH PIEDMONT AND ARLINGTON.

Organized.	COMPANY.	No. Policies Dec. 31st, 1868.	No. Deaths in 1868.	One in every
1843	Mutual Life	60,872	396	154
1845	New York Life	28,340	199	142
1846	Connecticut Mutual	55,691	424	131
1850	Manhattan	138,25	112	122
1850	Charter Oak	19,028	137	139
1851	Massachusetts Mutual	10,396	72	144
1851	Phœnix	17,761	107	166
1858	Northwestern	27,887	178	157
1859	Equitable	27,666	185	150
1860	Washington	8,885	43	207
1860	Home	10,311	65	159
1862	North America	11,328	78	145
1862	John Hancock	5,018	26	193
1862	Security	10,603	64	166
1864	Widows and Orphans'	3,452	21	164
1864	National, New York	2,093	13	161
1865	Universal	3,832	20	192
1865	Hahneman	2,452	11	223
1866	Great Western	1,472	5	294
1866	Atlantic Mutual	2,675	15	178
1866	World	1,423	9	158
1866	New Jersey Mutual	2,691	19	142
1866	Travelers'	3,568	17	210
1866	Hartford Life & Annuity	1,105	1	105
1866	American Popular	2,604	16	163
1867	Piedmont and Arlington.	3,122	10	312

Average of all Companies organized since 1859, one in.....188
Average of all Companies organized prior to 1860, one in.....145
Average of all Companies, one in.....153

2D. COMPARISON OF PROGRESS OF THE FOLLOWING SUCCESSFUL COMPANIES WITH THAT OF THE PIEDMONT AND ARLINGTON.

COMPANY.	Year of Operation.	Received in Premiums.	Number of Policies.
Mutual of New York	20th	$158,999	1,833
Equitable	5th	308,060	1,601
North America	4th	649,579	2,368
Knickerbocker	12th	229,709	1,249
Universal	2d	227,836	1,555
New York Life	16th	612,549	1,201
Guardian	8th	582,610	2,192
Manhattan	13th	539,567	1,146
Ætna	14th	199,952	1,822
Connecticut Mutual	8th	766,963	692
PIEDMONT AND ARLINGTON	Less than three years,	1,800,000	over 10,000

The success of this Company is therefore ahead of any now in existence, and its rapid progress will soon place it in the FRONT RANK of Life Insurance Companies.

If the above good Companies have succeeded, the greater success of the Piedmont and Arlington, with so much more favorable a start, is assured beyond any reasonable doubt.

Following Companies have no exhibit as to number of losses, but show amounts lost:

1868, "St. Louis Mutual," policies in force 1st January, 10,056

Losses by death, policies and reversionary additions, - - -	$455,838 46
Losses admitted and not yet due, - - - - - - -	85,600 00
Total losses in 1868, - - - - - - - - -	$541,438 46

Piedmont and Arlington had 3,122 policies *in force* 1st January, 1868. Losses in 1868, $42,000, and for present year (1869) losses of Piedmont and Arlington is *far under* experience of general average of Companies above stated, all which show this Company has lost less than any other.

Piedmont and Arlington wants Agents *everywhere*, and its Agency will secure a handsome income to active Canvassers.