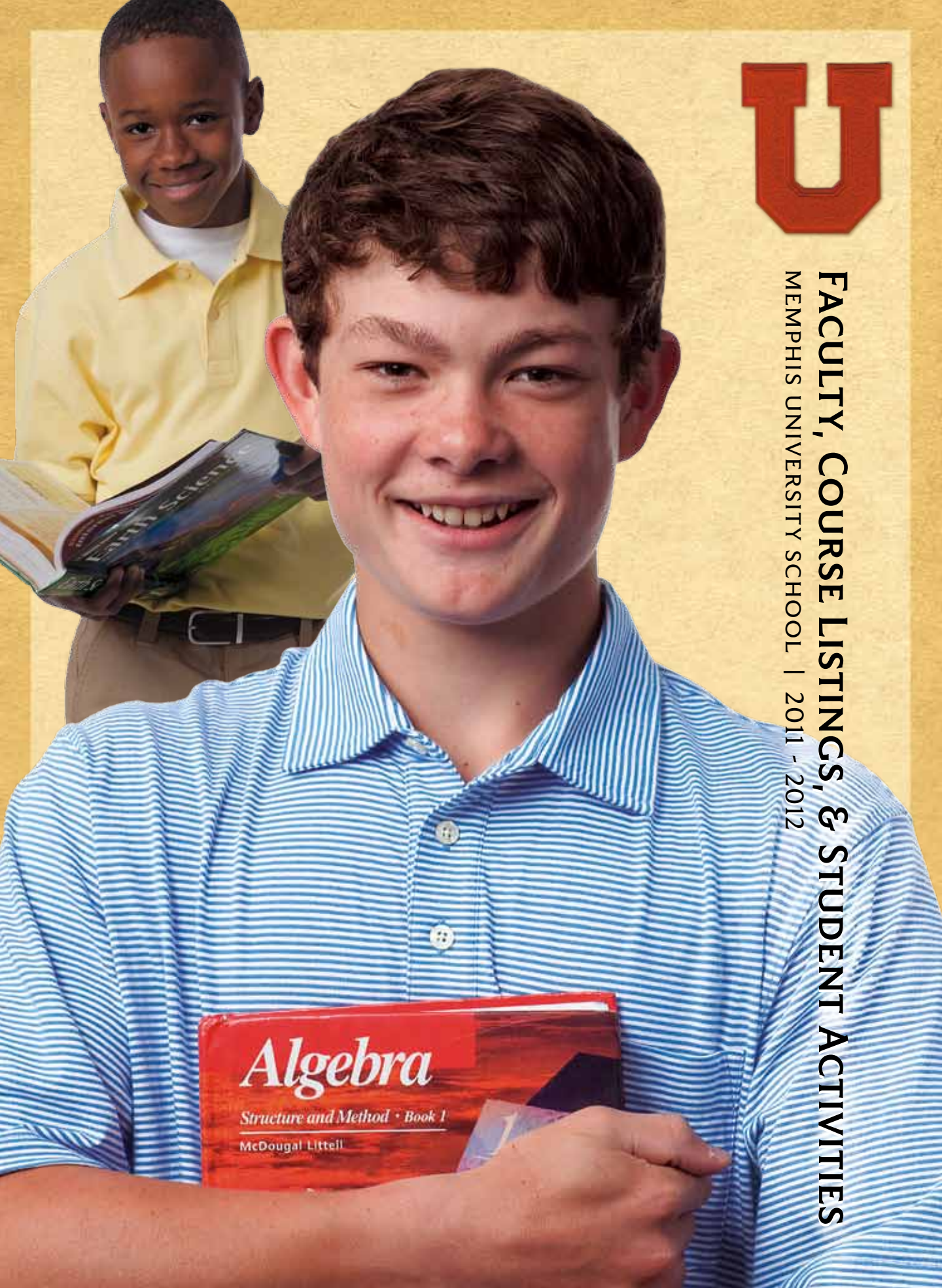




FACULTY, COURSE LISTINGS, & STUDENT ACTIVITIES
MEMPHIS UNIVERSITY SCHOOL | 2011 - 2012



Algebra
Structure and Method • Book 1
McDougal Littell

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ADMINISTRATION | (DATE) INDICATES YEAR JOINED MUS

ELLIS L. HAGUEWOOD (1969)

B.A., Harding University
M.A., University of Memphis
Headmaster
Instructor in Religion

W. BARRY RAY (1978)

B.A., The University of the South
M.Ed., University of Memphis
Principal, Upper School
Instructor in History and Social Studies

S. CLAY SMYTHE (2001)

B.A., University of Tennessee
M.A., Covenant Theological Seminary
M.Ed., Columbia University Teachers College
Principal, Lower School
Instructor in Religion

PHILLIP B. EIKNER (1983)

B.A., University of Virginia
Academic Dean
Instructor in English

STAFF DIRECTORS

BOBBY A. ALSTON (1977)

B.S., M.A., University of Memphis
Director of Athletics

BONNIE U. BARNES (1999)

B.A., Harding University
M.A., University of Arkansas
M.L.S., Vanderbilt University
Director, Joseph R. Hyde, Jr. Library Learning Center
Instructor in Research Skills

JOHN R. CADY (1982-96, 2007)

B.A., Rhodes College
M.Ed., University of Memphis
Director of Student Life

PERRY D. DEMENT (1996-2003; 2004)

B.A., Rhodes College
Director of Advancement

CLAIRE K. FARMER (1995)

B.S., University of Tennessee
Director of the Annual Fund

A. RANKIN FOWLKES (2005)

B.S., University of Mississippi
M.B.A., University of Memphis
Director of Business Operations

BEBE B. JONAKIN (2002)

B.A., Judson College
M.Ed., University of Memphis
Director of Counseling Services

ANN H. LAUGHLIN (2008)

B.B.A., University of Mississippi
Director of Alumni and Parent Programs

BRIAN K. SMITH (2009)

B.A., Ball State University
Director of College Counseling
Instructor in English

VICKI R. TYLER (2008)

B.A., University of Mississippi
J.D., University of Memphis
Director of Communications

PEGGY E. WILLIAMSON (2010)

B.A., Rhodes College
M.A., University of Memphis
Director of Admissions

FACULTY

P. NATHAN AKIN, JR. (2003)

B.A., University of Tennessee
M.A., University of Mississippi
Instructor in English

NANCY M. ARANT (2006)

B.A., Davidson College
M.Ln., Emory University
Librarian

SALLY A. ASKEW (2007)

B.S., M.A., University of Memphis
Instructor in English

WILLIAM L. ASKEW III (1979)

B.A., M.A., University of Memphis
Instructor in English

MATTHEW D. BAKKE (1999)

B.S., University of Memphis
Chair, Department of Physical Education
Instructor in Physical Education

TERRY D. BALTON (2000)

B.A., M.A.T., University of Memphis
Instructor in Fine Arts

FACULTY (CONTINUED)

R. EDGAR BATEY (1982-2002, 2004)

B.S., Rhodes College
M.A., University of Memphis
Director of Memphis Leaders
Instructor in History and Social Studies

VINCENT W. BECK (1997)

B.S., Old Dominion University
Instructor in Science

JAMES W. BUCHMAN (2006)

B.A., Dartmouth College
Instructor in Fine Arts

J. GRANT BURKE (2008)

B.S., Harding University
Instructor in Fine Arts

MARIA M. BURKE (2001)

B.S., University of Memphis
Instructor in Mathematics

MARK S. CHUBB (2006)

B.A., Wittenberg University
Instructor in Physical Education

DARIN R. CLIFFT (1999)

B.S., M.S., University of Memphis
Instructor in Mathematics

MARK S. COUNCE (1983-93, 2004)

B.A., University of Arkansas
M.Ed., University of Memphis
Assistant Upper School Principal
Instructor in Mathematics

ROSALYN A. CROCE (2006)

B.A., California State University
Instructor in Science

ELIZABETH M. CROSBY (1995-98, 1999)

B.A., M.A., University of Virginia
Instructor in English

ELLIOTT J. DENT III (1996)

B.A., Hampden-Sydney College
Instructor in Religion

D. HAMILTON EGGERS (2008)

B.A., Rhodes College
Instructor in History

JENNIFER G. FERNANDEZ (2008)

B.A., M.A., University of Virginia
M.Ed., Harvard University
Instructor in Spanish

J. KYLE FINNEY (2007)

B.S., M.S., Delta State University
Instructor in Physical Education

ROBERT W. FUDGE (2010)

B.A., B.F.A., University of Memphis
Instructor in Fine Arts

STEVEN C. GADBOIS (2007)

B.A., St. John's University
M.S., Ph.D., Michigan State University
Instructor in Mathematics

DAVID A. GAGLIANO (2011)

B.A., Tulane University
M.A., Florida State University
Instructor in Latin

NANCY N. GATES (1998)

B.S., Mississippi University for Women
M.S., University of Memphis
Donald Bailey Wiener Chair of Mathematics
Chair, Department of Mathematics
Instructor in Mathematics

ELIZABETH S. GILL (2010)

B.S., The University of the South
Instructor in Science

TIMOTHY S. GREER (2007)

B.A., Union University
Director of Theater
Instructor in English
Instructor in Fine Arts

MICHAEL E. GUNN (1985)

B.A., Christian Brothers University
M.S., Vanderbilt University
M.Ed., University of Memphis
Instructor in Mathematics

JOHN E. HARKINS (1968-70, 1974-75, 1986)

B.S., Ph.D., University of Memphis
M.A., Louisiana State University
School Archivist and Historian

JOSÉ R. HERNÁNDEZ (2002)

B.A., University of Memphis
Escuela Normal de Educación Física
Instructor in Spanish

BEBA C. HEROS (1985)

B.A., Siena College
Instructor in Spanish

JOHN F. HILTONSMITH (1984)

B.M.E., University of Memphis
Acting Chair, Department of Fine Arts
Instructor in Fine Arts

ELIZABETH P. HOPPER (2007)

B.A., Auburn University
B.S., Athens State University
M.S., Tennessee State University
Instructor in Mathematics

DAVID B. JACKSON (1974-82, 2005)

B.A., Harding University
M.A., M.Th., Harding University Graduate
School of Religion
D.Min., Abilene Christian University
*Robert J. Hussey, Sr. Chair of Religion
Chair, Department of Religion
Instructor in Religion*

REBECCA A. KEEL (2010)

B.A., Lambuth University
M.A.T., Middle Tennessee State University
Instructor in French

JOHN J. KNAFF III (1996)

B.S.E.E., Pennsylvania State University
M.B.A., University of Mississippi
M.A., University of Memphis
*Instructor in History and Social Studies
Instructor in Mathematics*

JONATHAN M. LARGE (2008)

B.A., Rhodes College
M.A., University of Kentucky
Instructor in History

LAURA T. LAWRENCE (2004)

B.S., M.A.T., University of Memphis
Instructor in Science

LEE B. LODEN (2011)

B.S., Mississippi State University
Instructor in Science

JAMES J. MCCLAIN (2011)

B.A., University of California, Davis
M.A., University of Memphis
Instructor in English

ORLANDO R. MCKAY (1996-2000, 2001)

B.A., University of Washington
M.B.A., University of Memphis
*Instructor in History and Social Studies
Instructor in Physical Education*

SHAUNA H. MILLER (2007)

B.S., University of Texas at Arlington
Instructor in Science

DIANA B. MOORE (1993)

B.A., University of Mississippi
M.Ed., University of Memphis
Instructor in Mathematics

R. WAYNE MULLINS (2008)

B.A., University of Memphis
M.S., University of Alabama
Instructor in Science

LOYAL W. MURPHY IV (1990)

B.S.C.E., Rice University
*Anne and Glenn A. Crosby Chair of Christian Ethics
Instructor in Mathematics*

LEIGH B. PACKARD (2010)

B.A., University of Tennessee
Instructor in Mathematics

KATHERINE B. PARR (2007)

B.A., Davidson College
M.A., Middlebury College
Associate Director of College Counseling

DOUGLAS R. PERKINS (2006)

B.S., St. Joseph's College
M.S., University of Memphis
*Chair, Department of History and Social Studies
Instructor in History and Social Studies*

JASON E. PETERS (2011)

B.A., Rhodes College
Instructor in History and Social Studies

SUSAN B. QUINN (1999-2004, 2011)

B.S., M.A., Miami University of Ohio
Instructor in Mathematics

SPENCER M. REESE (2008)

B.A., University of Tennessee
M.A., University of Memphis
Instructor in English

MARILYN G. REINHARDT (1973-81, 2004)

B.A., M.A.T., Vanderbilt University
Instructor in Latin

GLENN E. ROGERS, JR. (2000-02, 2003)

B.S., University of Memphis
*Assistant to the Director of Admissions
Instructor in Physical Education*

JAMES D. RUSSELL (1965)

B.A., Tulane University
M.A.T., Vanderbilt University
*Sue Hightower Hyde Chair of English
Chair, Department of English
Instructor in English
Instructor in Fine Arts*

JUDY A. RUTLEDGE (1995)

B.A., Arizona State University
M.A., Pepperdine University
Educational Technology Coordinator

FACULTY (CONTINUED)

ROSS D. RUTLEDGE (2009)

B.A., Millsaps College
M.A., Mississippi College
Instructor in History and Social Studies

JONATHAN E. SAUNDERS (2007)

B.A., David Lipscomb University
Instructor in Computer Science

CATHERINE S. SCHUHMACHER (2006)

B.A., Rhodes College
M.A., University of Memphis
Lower School Counselor

MICHAEL D. SCHWARTZ (2005)

B.S., Purdue University
Ph.D., University of Wisconsin
*Sally and Wil Hergenrader Chair of Excellence
in Science*
Chair, Department of Science
Instructor in Science

RYAN G. SELLERS (2007)

B.A., Louisiana State University
M.A.T., University of Memphis
Instructor in Latin

ALBERT L. SHAW (2003)

B.A., Saint John's University
M.S., University of Wyoming
M.S., Long Island University
J.D., Saint John's University
Ruth McCaughan Morrison Chair of Science
Instructor in Science

TERRY N. SHELTON (1978)

B.A., M.A., University of Memphis
A. Robert Boelte, Jr. Chair of Excellence in Teaching
Instructor in English

ANALICE H. SOWELL (2007)

B.S., M.A.T., Christian Brothers University
Instructor in Science

KENNETH L. STACEY (2006)

B.S., Georgia Institute of Technology
M.S., University of Memphis
Instructor in Spanish

K. PHILLIP STALLS, JR. (2011)

B.S., University of the South
M.S., Florida State University
Instructor in Mathematics

SAMUEL D. SUDDARTH III (2004)

B.A., The University of the South
M.Ed., Vanderbilt University
Chair, Department of Foreign Languages
Instructor in Latin

ALBERTA J. SULLIVAN (2007)

B.S., University of Memphis
Instructor in Mathematics

WILLIAM S. TAYLOR (1976)

B.S., Rhodes College
Instructor in Science

D. WHITFIELD TENENT (2005)

B.A., Lynchburg College
Instructor in History and Social Studies
Instructor in Vocabulary

NORMAN S. THOMPSON (1972)

B.A., University of Mississippi
M.A., University of Memphis
L. Edwin Eleazer III Chair of Excellence in Teaching
Instructor in English

DAX A. TORREY (2000)

B.A., Vanderbilt University
M.A., University of Memphis
Instructor in English

JOSEPH S. TYLER (1999)

B.S., Creighton University
M.A., University of Memphis
Assistant Lower School Principal
Instructor in Mathematics

ROBERT H. WINFREY (1986)

B.A., University of Memphis
M.A., Ph.D., University of Oklahoma
Ross McCain Lynn Chair of History
Instructor in History and Social Studies

FACULTY EMERITI (YEARS OF SERVICE)

A. ROBERT BOELTE, JR. (1969-2003)
PETER M. BOWMAN (1979-2008)
RICHARD C. BROER (1973-80, 1996-2011)
BARBARA L. CRIPPEN (1987-2008)
REGINALD A. DALLE (1981-2011)
LESLIE C. DANIEL, JR. (1967-2000)
W. RICHARD ELLIS (1990-2004)
JEFFREY T. GROSS (1988-2007)
PALLIE B. HAMILTON (1970-1990)
JOHN E. HARKINS (1968-70, 1974-75, 1986-2009)
M. VINCENT MUTZI (1970-2008)
ANDREW F. SAUNDERS III (1972-2010)

BOARD OF TRUSTEES

Robert E. Loeb '73, Chairman
Samuel N. Graham II '80, Vice Chairman
Gary K. Wunderlich, Jr. '88, Treasurer
W. Thomas Hutton '61, Secretary
R. Louis Adams '70
James F. Burnett '83
Suki S. Carson
Robert M. Fockler '77
P. Trowbridge Gillespie, Jr. '65
J. Brett Grinder '91
Ellis L. Haguewood, *Ex Officio*
Mark J. Halperin '67
Harry Hill III '66
Joseph R. Hyde III '61
E. Carl Krausnick, Jr. '79
Andrew R. McCarroll '86
Johnny B. Moore, Jr.
Richard C. Moore, Jr. '63
Joseph M. Morrison '78
D. Stephen Morrow '71
Wiley T. Robinson '75
Chris R. Sanders
Charles F. Smith, Jr. '66
Owen B. Tabor, Jr. '85
S. Alexander Thompson III
William E. Troutt

HONORARY BOARD OF TRUSTEES

Ben C. Adams '74
Donald G. Austin, Jr. '59
James H. Barton '61
Roy E. Bell, Jr.
Russell E. Bloodworth, Jr. '63
Richard C. Cowan '69
V. Glenn Crosby
James H. Daughdrill, Jr.
William W. Deupree, Jr. '59
John H. Dobbs, Sr.
William B. Dunavant, Jr.
Susan B. Faber
Richard L. Fisher '72
Nelson F. Freeburg, Sr.
M. M. Gordon
Robert J. Hussey, Jr.
Henry A. Hutton '72
R. Lee Jenkins
W. Neely Mallory, Jr.
John R. McCarroll, Jr.
Henry W. Morgan, Sr. '61
Musette S. Morgan
Thomas B. Preston
James C. Rainer III
C. Barham Ray '64
Michael D. Rose
Stephen C. Schadt '65
James C. Varner '73
Alexander W. Wellford, Jr. '60
Lee R. Wiener '63
Alvin W. Wunderlich, Jr.
Kent Wunderlich '66

THE ACADEMIC PROGRAM

The academic program of Memphis University School covers six years, divided into Lower School (Grades 7 and 8) and Upper School (Grades 9 through 12). The year is divided into two semesters, and each student is required to take five credit courses each semester.

In keeping with the school's mission, the MUS academic program focuses on college preparation. Graduation requirements should meet entrance eligibility prerequisites at any college in the United States. Of course, students and parents, aided by our college counselors, should research as early as possible the specific admissions requirements at colleges where they intend to apply. Intensive alternatives are available in the accelerated and Advanced Placement (AP) courses, which are offered in a number of disciplines. The AP program is offered starting in the tenth grade. Upon completion of an AP course and making the required score on the AP exam, a student may apply for credit and/or advanced placement in the college or university that he will attend.

GRADING		
<u>GRADING SCALE</u>		<u>GRADE POINT</u>
A	90 - 100	4.0 - 5.0
B	80 - 89	3.0 - 3.9
C	70 - 79	2.0 - 2.9
D	65 - 69	1.5 - 1.9
F	Below 65	0.0

GRADUATION REQUIREMENTS*

FOR THE CLASSES OF 2012 AND 2013

4 credits.....	English
3 credits.....	Mathematics (3 years in Grades 9-12, excluding Statistics and Computer Science)
2 credits.....	Foreign Language (2 years of the same language in Grades 9-12)
3 credits.....	Science (2 credits from Biology, Chemistry, or Physics, plus 1 additional credit)
3 credits.....	History (1½ credits United States, 1 credit European, and ½ credit U.S. Government)
1 credit	Fine Arts
1 credit	Religion (½ credit Grade 9; ½ credit Grade 11 or 12)
1 credit	Elective
3 credits.....	Physical Education
<hr/>	
21 credits	

FOR THE CLASSES OF 2014 AND BEYOND

The requirements for the Class of 2013 apply except for these changes:

4 credits.....	Mathematics (Algebra I, Geometry, Algebra II, and at least 1 higher math; at least 3 post-Algebra I courses during Grades 9-12)
3 credits.....	Science (Biology and Chemistry, plus Physics or 1 additional science credit)
1 credit	Elective (exception: no credit is required if Algebra I is completed during Grade 9 or later)

*A credit is a year of course work. A student must earn at least four credits in the senior year and must be in residence during his senior year to obtain a diploma.

LOWER SCHOOL CURRICULUM

SEVENTH GRADE

English
Mathematics (one of the following)
 Pre-Algebra
 Accelerated Pre-Algebra
 Accelerated Algebra I
Introduction to Memphis Leaders/ Art
Earth Science/Life Science
Old Testament/Origins of Language
Physical Education

EIGHTH GRADE

English
Mathematics (one of the following)
 Algebra Essentials
 Algebra I
 Accelerated Algebra I
 Accelerated Geometry
Ancient and Medieval History
Latin I
Physical Science
Physical Education

STUDY SKILLS

Lower School students are prepared to meet the demands of a challenging curriculum at MUS. An emphasis on study skills in the seventh grade stresses organization, note taking, reading for content, idea mapping and outlining, and preparation for exams.

COUNSELING

The development of the individual student is a primary concern for the faculty and staff of Memphis University School. The counseling and advising programs are designed to facilitate the growth of each student. The backbone of the Kemmons Wilson Leadership Development and Counseling

Center is the relationship among administrators, faculty, students, and parents. Faculty members are available at least four periods a week to help students. Counseling services are provided by two counselors. Small, supervised study sessions are organized for students who are academically deficient.

COLLEGE COUNSELING

The College Counseling team carefully and thoughtfully guides each student and his family through the college admissions process. Parents and students in the ninth, tenth, eleventh, and twelfth grades attend meetings with members of the College Counseling staff in the fall. Seniors have individual meetings throughout the fall semester as they work to complete the college application process prior to the office's prescribed deadline. College counselors also review and comment on the college essay before it is submitted as part of the application for admission.

In the junior year, students are highly encouraged to schedule two individual meetings to kick off their college admissions process. These meetings are scheduled during the spring semester and are useful in beginning the college search and selection process. During these meetings, junior students are given college admissions assignments to complete during the summer months when they are typically less busy and can focus solely on those tasks. All students are invited and encouraged to attend *An Evening With Colleges*, three college fairs where students and parents can talk personally with college representatives in an informal and fun setting.

COURSE LISTINGS

ENGLISH

The English program is designed to enable the student to understand the communications of others and to employ the English language in creative and expository composition and speech. Courses prepare the student in grammar, composition, vocabulary, and literary analysis so that he develops competence in the use of his native language, not only in college, but throughout life.

In the Lower School, courses prepare the student in understanding and employing grammar, in developing a keen interest in the use and meaning of words, in writing and speaking, and in reading and understanding types of literature. In the Upper School, English courses continue to emphasize a sound understanding of and facility in English. Students assess literature according to type, theme, aspects, history, and great masterworks. Frequent writing of essays and research papers reflects both personal expression and the interpretation of literary studies. Vocabulary study includes word origins, connotative and denotative meanings, and analogies. Finally, analysis of grammar, usage, and syntax occurs not in isolation from literature and composition, but in relationships with those aspects of English.

After students have completed the required Junior English Review course or AP English during the first semester of the eleventh grade, they enroll in Shakespeare or AP English during the second semester. As first-semester seniors, students continue with AP English or select among elective senior seminars emphasizing genres, historical periods, themes, or great authors. Second-semester seniors enroll in an additional seminar to complete their English requirements.

SUMMER READING

At Memphis University School we firmly believe that a summer reading program is of great advantage to the student. The enrichment, enjoyment, experience, and ideas to be gained through reading should not be set aside for three months of the year. Also, reading is valuable

in better preparing a student in vocabulary, reading speed, and comprehension for the following year's work, as well as for college entrance examinations. Furthermore, it is very important for a student to have read as much and as widely as possible before he undertakes his college work.

Believing that reading should be encouraged as a lifetime activity, Memphis University School students are required to read at least three books during the summer from a prescribed list. The list is on the MUS website.

ENGLISH 7

Full Year, Grade 7

This course not only lays a foundation for the study of grammar, composition, and literature, but also encourages a habitual precision for thought and word. Sentence analysis fosters higher-level thinking and builds a vocabulary of language study. Frequent paragraph writing and some supervised research emphasize organized, substantive, detailed, and concise prose. Reading and discussing short stories, a novella, and other texts instill an appreciation for the writer's technique. The study of mythology uncovers the roots of religion, folklore, and literature to which so much of Western culture is indebted.

ENGLISH 8

Full Year, Grade 8

An intensive study of the grammar and mechanics of standard English, this course emphasizes clear, effective writing and the analysis and appreciation of the short story, novel, folk epic, and Greek tragedy.

HONORS ENGLISH 9

Full Year, Grade 9

This course familiarizes the student with various genres of literature and the critical vocabularies associated with each; it reviews grammar – punctuation, syntax, and diction – and stresses vocabulary building. Effective writing is emphasized through examination of the mechanics of the paragraph, the five-paragraph composition, and the literature-based critical analysis.

HONORS ENGLISH 10: AMERICAN LITERATURE

Full Year, Grade 10

Students are introduced to the major writers and works of American literature in a historical analysis with continued emphasis on traditional genres. In addition to writing compositions of literary analysis, students learn the fundamental procedures of research as they complete a formal term paper. Continued vocabulary study accompanies the review of English grammar through writing and practice in advanced usage and structure.

HONORS ENGLISH 11: JUNIOR ENGLISH REVIEW

First Semester, Grade 11

Taken during the fall semester of the student's junior year, this course offers intensive vocabulary study and concise but thorough review of grammar with emphasis on usage problems. Required of all juniors unless they are enrolled in AP English.

AP ENGLISH 11: ENGLISH LANGUAGE AND COMPOSITION

Full Year, Grade 11

In this course, juniors review grammar, increase vocabulary, and polish their skills in writing and analyzing prose in preparation for the AP English Language and Composition examination. Enrollment is subject to approval of the instructor and the English Department.

HONORS ENGLISH 11: SHAKESPEARE

Second Semester, Grade 11

This introduction to William Shakespeare will include the plays *Hamlet*, *Macbeth*, *Romeo and Juliet*, and *Henry IV, Part One*, along with at least one other play of the instructor's choosing. Coursework will also introduce the sonnet form, illustrated with several examples. Discussions will cover the fundamentals of reading and interpreting drama and poetry.

AP ENGLISH 12: ENGLISH LITERATURE AND COMPOSITION

First Semester, Grade 12

Students advance their ability in analysis of poetry, drama, essays, short stories, and novels in preparation for the AP English Literature and Composition examination. Permission of the instructor required.

HONORS ACCELERATED SHORT STORY COMPOSITION

First Semester, Grade 12

In this introduction to the disciplined practice of crafting the contemporary short story, students read and discuss superlative examples of short stories, paying specific attention to the artistic craftsmanship exhibited. In addition to writing short exercises and participating in class critiques, each student conceives and executes three short stories for critique and revision. This is an honors accelerated course and permission of the instructor is required.

HONORS ENGLISH 12: SENIOR SEMINARS

First Semester, Grade 12

Seniors may enroll in one of several one-semester courses. The following electives have been offered during the first semester:

Facing History Through Literature

In this course, students undertake an examination of literature and film focusing on the Holocaust and genocide as a basis for the study of individual and group behavior. Students develop practical models for civic engagement that link history to the challenges of an increasingly interconnected world and the moral choices that young people make daily. This course is offered in the evening and includes students from Hutchison School.

Literature and War

In this exploration of the nature of war and its effect on man through a study of modern war literature, students examine varying attitudes of authors toward war and what these attitudes reveal about society. In addition, students examine various literary movements – romanticism, realism, naturalism, absurdism – and explore how the literature reflects the characteristics of these movements.

19th-Century Literature

Students explore the transition from Neoclassicism to Romanticism, the social and intellectual causes of this transition, and the ways that this radical alteration in man's perception of the universe manifested itself in the literature of 19th-century England. The work of the major Romantic and Victorian poets is examined, as well as several seminal prose critical treatises defining the spirit and creative impetus of each period. Special emphasis

is placed on the dramatic monologue, the chief poetic innovation of the 19th century. A Romantic or Victorian novel may also be included in the class syllabus.

Utopia and Satire

Reading contemporary novels by writers such as LeGuin, Vonnegut, Bradbury, and Huxley, students encounter examples of utopian and dystopian societies where men seek to satisfy physical, emotional, intellectual, political, or social needs. Also, the vice or folly of man in his history or in his visionary utopias is satirized by Swift in *Gulliver's Travels* as well as by contemporary writers. Essays and an oral report are required in addition to tests over the reading material.

HONORS ENGLISH 12: SENIOR SEMINARS

Second Semester, Grade 12

Seniors may enroll in one of several one-semester courses. Students who earn English credit for MUS in Europe's summer course do not need to take an English course second semester. The following electives have been offered during the second semester:

Irish Short Fiction

Students in this course become acquainted with the peculiarly Irish affinity for and excellence in telling well-crafted tales, specifically in the form of the modern and contemporary short story. The main focus concerns the Irish Renaissance of the late 19th and early 20th centuries and the intentional, excellent, sustained cultural flowering that followed. After a close study of James Joyce, participants read and discuss other modern and contemporary masterpieces of the short form and attempt to define what inherent qualities and concerns might account for the fertile and lasting imagination of the Irish.

Literature of the African Diaspora

This course provides a mere introduction to the literary works of writers of African descent. Students explore the unique ways in which writers use memoir, poetry, and fiction to represent the diasporic experience. Students read a sampling of works from West Indian and African writers. Themes of particular interest are identity, freedom, family, salvation, and the power (and limits) of language.

Southern Renaissance Literature

This seminar explores and attempts to explain the sudden flowering of Southern literature of all genres beginning in the late 1920s and continuing to the present. The novels studied are Faulkner's *Light in August*, Walker Percy's *The Moviegoer*, and Ernest Gaines's *A Lesson Before Dying*. In addition, the short story, poetry, and the essay are considered.

Studies in Poetry

This course examines poetic terminology, genres, and forms. Each year selected poets and forms are examined to deepen understanding of such poets as Donne, Browning, Shakespeare, Yeats, Hardy, Keats, Cummings, Frost, Eliot; of such forms as the sonnet, the mock-epic, the ode, the dramatic monologue; and of such modes as lyrical, narrative, satirical, and parody.

The Monomyth in Literature

This course is an exploration of powerful ideas and myths surrounding the "wrake and wonder" of the hero's journey, the meta-narrative of the fairy tale, and the preternatural legends that were staple entertainment. Students examine how literature responds in particular, complex ways to individual and social problems of great urgency. Literary pieces are situated in a rich textual environment to foster discourse about self-fashioning, the relationship between the individual and society, official and unofficial practices of justice, and adventure.

FINE ARTS

The understanding and appreciation of the finest works of man's creative spirit are necessary for a complete education. Effective instruction in the arts provides the student with technical skills and motivation to develop an awareness of his environment, to increase his aesthetic and cultural understanding, and to communicate creatively his image of himself and his world. All of these aims can truly serve to produce in the individual an appreciation for the relationship of the arts to every aspect of daily living.

ART 7

One Semester, Grade 7

With a single, semester-long project, this course offers students a first experience in the development and building of a sculpture. Students draw to develop an idea for a full-size head, construct an armature derived from their drawings, model cement over the armature to refine the form, and finally, cover the form with mosaic tiles.

2-D DESIGN

First Semester, Grades 9-12

This introductory course in studio fundamentals includes intensive study in painting, drawing, 2-D design, and printmaking. The course content is structured systematically throughout the year, walking students through the basic elements and principles of design, beginning with drawing fundamentals and gradually progressing through more sophisticated concepts and more complex media.

3-D DESIGN

First Semester, Grades 9-12

Three experiences – classroom discussion of images of architecture from a variety of cultures and historical periods, the building of a plaster sculpture of a house, and the delivery of a ten-minute PowerPoint presentation to their classmates – give students an introduction to the vocabulary of architecture and its role in their environment.

PRINTMAKING

Second Semester, Grades 9-12

This course reviews the basic elements and principles of design along with fundamental

drawing techniques. Dry point Intaglio printing is continued, while etching and engraving techniques are introduced. Students will work with relief printing through linoleum and wood blocks and will be introduced to different silk screening processes. Each student is encouraged to experiment with various printmaking media and to develop an appreciation for the history of printmaking.

SCULPTURE

Second Semester, Grades 9-12

Through both classroom discussion of several key images from art history and the building of four sculptures in a variety of materials, students are introduced to three important ways of making sculpture as they grow to understand the interplay between an expressed volume and the space that contains it.

ART II

One Semester or Full Year, Grades 10-12

This course is offered to students who wish to continue their art education after completing a first year of art. They may choose from Topics in Printmaking or Topics in Sculpture. Permission of the department is required.

AP ART HISTORY

Full Year, Grade 12

This course is a survey of humankind's artistic expression in painting, sculpture, and architecture from the cave paintings of the Stone Age to the abstract compositions of our day. Students develop sophisticated ways of seeing the monuments of Western civilization, and, by mastering skills of analysis and description, they claim for their own this rich cultural legacy. This course prepares students for the AP examination.

DIGITAL DESIGN

One Semester, Grades 9-12

This course teaches effective design and communications through digital technology. Foundational design elements and principles common to all media are discussed and used in the context of this course. Students are taught introductory design theory and use a variety of print and computer-based technologies to explore those design principles.

DIGITAL FILM PRODUCTION

First Semester, Tuesday Evening, Grade 12

This course provides a basic understanding of film as a creative artistic endeavor and emphasizes the collaborative arts involved in producing film. The course develops basic skills in scripting and planning for film, camera operations, and image manipulation through lighting and editing. Students apply digital film technologies and computer software in the process of digital film production.

MEN'S CHOIR

Full Year, Grades 9-12

The choral ensemble at MUS, *Beg To Differ*, gives upward of 20 performances a year for community organizations and other schools and goes on a concert tour of France every third year. The group has released four CDs. Having won numerous national awards in competition, the ensemble also has been featured on an international CD of the best high-school *a cappella* groups. Students may be admitted after a favorable audition.

MUSIC APPRECIATION

Full Year, Grades 11 and 12

This course explores the development of Western music and its relationship to the other humanities, from the genesis of modern polyphony in the Renaissance, through the masterpieces of the Baroque, Viennese, and Romantic periods, and into American Nationalism. Popular forms indigenous to the United States, including the musical comedy, jazz, blues, and rock 'n' roll, will be the primary focus of the second semester.

RECORDING ARTS (ENGINEERING OR PERFORMANCE)

Full Year, Grades 11 and 12

The instrumental- and recording-studio production program allows an auditioned ensemble to explore, historically and musically, genres of late 20th-century music from rockabilly to rock 'n' roll, and from fusion to funk. Students learn the process of teaching, arranging, performing, and tracking their own recordings for a CD in our digital-recording studio.

MUSIC THEORY AND COMPOSITION (OR) AP MUSIC THEORY AND COMPOSITION

Full Year, Grades 11 and 12

These courses are designed for students who wish to improve their mechanical and compositional skills in music. They are geared toward an understanding of all types of music, including the serious genres as well as popular forms such as rock and jazz. Such topics as chord structures and progressions, chart reading and writing, harmonizations of given melodies, and complete original compositions are considered.

PHOTOGRAPHY

One Semester, Grades 11 and 12

This course begins with instruction in basic camera operation and darkroom procedures, continuing throughout the term with extensive class instruction and independent effort in both. Students expand their technical knowledge and skill, as well as their artistic perception, as they complete assignments covering various topics and themes. Each student provides his own 35mm SLR camera and supplies.

SPEECH COMMUNICATIONS

One Semester, Grades 11 and 12

This is an introductory course in public speaking that stresses the organization and presentation of the extemporaneous speech in a variety of settings. Students completing this course are able to incorporate public speaking into situations they might face in their personal and professional lives.

THEATER PRODUCTION

Full Year, Grades 11 and 12

This course introduces the student to the process of play production, providing him with the skills necessary to produce plays and developing his appreciation for the theater arts.

FOREIGN LANGUAGE

The program aims to develop the student's ability to read, write, speak, and understand his chosen language. Instruction is offered in French, Spanish, and Latin. Latin I is required in Grade 8. In Grade 9, the student may continue in Latin, or he may begin studying a modern language.

ORIGINS OF LANGUAGE

One Semester, Grade 7

This course is an introduction to foreign language study aimed at developing the student's knowledge of both Greek and Latin roots of English words. The goal is to build a strong foundation in vocabulary, syntax, etymology, and classical mythology. This will help students, not only in English, but in other academic disciplines, and in college entrance exam testing (ACT/SAT). It also serves as a useful introduction to the Latin I requirement in the eighth grade.

HONORS LATIN I

Full Year, Grades 8 and 9

This course is designed to teach students to read Latin with confidence and to give some insight into life in the early Roman Empire.

HONORS ACCELERATED LATIN II

Full Year, Grades 9-11

This course reviews the fundamentals of grammar and vocabulary from Latin I while introducing new grammar and vocabulary that enable students to further master the Latin language. Additional composition and translation, including selections from Caesar's *Gallic Wars* and *Fabulae Graecae* (Jason and the Argonauts, Hercules, etc.) are emphasized.

HONORS ACCELERATED LATIN III

Full Year, Grades 10-12

This course acquaints the student with the history, politics, and society of the final years of the Roman Republic. Readings are from Sallust's *Catiline*, Cicero's *Orationes*, and other works.

AP LATIN VERGIL

Full Year, Grades 11 and 12

This AP course introduces the philosophical, religious, and political concerns of Augustan Rome and includes readings from Vergil's *Aeneid*.

HONORS ACCELERATED LATIN V: LITERATURE

Second Semester, Grades 11 and 12

This course consists of advanced prose and poetry readings. Prose authors include Petronius and Apuleius; poets include Catallus and Horace. This reading course is conducted in a fashion similar to a 300-level college class.

HONORS FRENCH I

Full Year, Grades 9-11

This course serves as the introduction to French and is designed to enable the student to speak, understand, read, and write the language presented within the context of the contemporary French speaking world and its culture.

HONORS FRENCH II

Full Year, Grades 10-12

This course is a continuation of French I (which is a prerequisite) with increasing proficiency in the target language.

HONORS FRENCH III (OR) HONORS ACCELERATED FRENCH III

Full Year, Grades 11 and 12

This course presents discussion, composition, and review of grammar based on readings dealing with contemporary French social and cultural topics. The course also includes an introduction to French history, society, institutions, and culture. Students enrolling in Honors Accelerated French III have additional assignments.

AP FRENCH LANGUAGE

Full Year, Grade 12

This AP course is intended for students who have excellent command of grammar and competence in listening, reading, speaking, and writing, and who have chosen to develop their proficiency in French.

**HONORS SPANISH I (OR)
HONORS ACCELERATED SPANISH I**

Full Year, Grades 9-11

This course is designed to introduce the student to the Spanish language and culture. The course stresses listening, speaking, reading, and writing through vocabulary enrichment and conversation in the classroom.

**HONORS SPANISH II (OR)
HONORS ACCELERATED SPANISH II**

Full Year, Grades 10-12

Structured with a beginning four-week review of Spanish I, Spanish II continues the same vocabulary, grammar, and conversation as Spanish I with an added emphasis on daily usage of the language and short written compositions. Honors Accelerated Spanish II is a pre-requisite to Honors Accelerated Spanish III.

**HONORS SPANISH III (OR)
HONORS ACCELERATED SPANISH III**

Full Year, Grades 11 and 12

This course is designed as a more intensive reading, conversation, and writing course through the study of culture, literature, and selected essay topics. Honors Accelerated Spanish III is offered for those students wishing to continue on to AP Spanish.

**HONORS SPANISH IV (OR)
AP SPANISH LANGUAGE**

Full Year, Grade 12

Both of these courses stress conversation and writing of critical essays based on Spanish and Latin American literature.

HISTORY AND SOCIAL STUDIES

Social Studies is the examination of man's nature, his ideas and institutions – both past and present – and draws its substance from several disciplines. It is the function of the History and Social Studies program to explain the political, social, intellectual, and economic development of man and to contribute to the understanding of the way in which the complex interplay of these forces has molded the world. In order to accomplish this task, the History and Social Studies program emphasizes critical and objective modes of inquiry, communication skills, and an appreciation of the contributions of all cultures to the history of man from earliest times to the present.

INTRODUCTION TO MEMPHIS LEADERS

One Semester, Grade 7

This course defines and examines the basic principles of history, culture, economics, and leadership as they relate to the students and to the communities of which they are members. There is significant emphasis on state and local history and how these relate to the students themselves, the nation, and the broader world. Students are taught uses of critical thinking in analyzing problems and seeking reasonable solutions to them. Students also investigate and discuss current events.

**SOCIAL STUDIES 8: ANCIENT AND
MEDIEVAL HISTORY**

Full Year, Grade 8

This course introduces students to scholarly examination and sets the stage for learning modern history. It spans the rise of prehistoric humans through ancient civilizations and the Middle Ages. Its examination of Asian and pre-Columbian cultures helps students relate to human diversity. It introduces students to major political, economic, religious, philosophical, and cultural traditions emerging worldwide prior to the Renaissance. Students learn critical and analytical approaches to the study of history, including the use of primary sources.

HONORS U.S. HISTORY: 1450–1800

One Semester, Grade 9

This course, the first semester of a three-semester sequence, surveys the formation of America's distinctive society from about 1450 to the peaceful transition of political power in the fledgling United States in 1801. From the perspective of an Atlantic civilization, students explore the influence of Europeans, Native Americans, Africans, and geographic and economic factors on the creation of colonial cultures. They then trace independence movements and the attainment of nationhood.

**HONORS U.S. HISTORY: 1800–PRESENT (OR)
AP U.S. HISTORY: 1800–PRESENT**

Full Year, Grades 10 and 11

This course focuses on the significant events, individuals, ideas, and institutions of our nation's past, and surveys the intellectual, political, social, economic, and diplomatic trends in U.S. history from the early 19th century to the present. Skills emphasized include comprehension and analysis of historical processes and concepts. AP students have additional reading and writing to prepare for the AP examination.

**HONORS EUROPEAN HISTORY (OR)
AP EUROPEAN HISTORY**

Full Year, Grade 11

In this course, students are guided through a survey of the major political, economic, religious, scientific, and social themes of Western civilization from 1500 A.D. to the present. Students achieve greater cultural literacy through familiarity with historical events, sequences, and movements. They also develop an appreciation for comparative cultures and increase their skills in research, analysis, interpretation, and oral and written expression. AP students have additional reading and writing to prepare for the national AP examination.

HONORS HISTORY OF THE AMERICAN SOUTH

One Semester, Grade 12

This course is a one-semester survey of the history of the American South from the colonial era through the present that focuses on the growth of the South's idiosyncratic cultural, social, and economic establishments. Students will work to improve their thinking and writing skills through a deep engagement with their region's past.

**HONORS U.S. GOVERNMENT (OR)
AP U.S. GOVERNMENT**

One Semester, Grade 12

A one-semester course for seniors who have taken U.S. History, this course emphasizes the constitutional development of our nation's government. The structure of government and the location of power are stressed along with the role of political parties and special interest groups. Throughout, policy making and problem solving of the government are analyzed as they relate to current issues.

HONORS ECONOMICS

One Semester, Grades 11 and 12

This course is an introduction to fundamental economic concepts and issues in a price-directed economy. The evolution and modification of pure capitalism, historical and contemporary fiscal monetary policies, and personal financial management are emphasized during this one-semester course.

HONORS PSYCHOLOGY

One Semester, Grades 11 and 12

This one-semester elective approaches the study of human behavior as a social science. The first half of the course is an in-depth study of the three personality theories that most influenced the emergence of psychology: psychoanalysis, behaviorism, and humanism. During the second quarter, students apply these three personality theories to the study of life-span development, psychological disorders, psychotherapy, and social influences on human behavior.

MATHEMATICS

The mathematics program provides students with the fundamental skills and concepts needed for the intelligent interpretation and appreciation of spatial and quantitative relationships. The mathematical knowledge of students at graduation should enable them to continue their studies at the college level in whatever field they choose. Students with unusual talents and interests are identified as early as possible so that they may become involved in an accelerated program for more rapid development of their skills.

PRE-ALGEBRA

Full Year, Grade 7

This course reinforces skills necessary for the successful study of algebra. Fundamental operations with natural numbers, integers, decimals, percents, and fractions are covered. Applications of the basic ideas of algebra, including work with the coordinate plane, are emphasized and include informal geometry and some right triangle trigonometry.

ACCELERATED PRE-ALGEBRA

Full Year, Grade 7

This rigorous course exposes students to a broader and deeper exploration of mathematics than the Pre-Algebra course. There is additional focus on more complex application problems and exercises designed to develop problem solving and thinking skills. By also including a thorough study of introductory geometry and algebra, it provides a solid foundation for additional study in both areas.

ALGEBRA ESSENTIALS

Full Year, Grade 8

This course is designed to strengthen basic mathematics skills and introduce students to beginning algebra. Operations and applications involving integers, decimals, percents, and fractions are covered. Students also study elementary algebra concepts including the coordinate plane, graphs of points and lines, linear equations, and simplification of algebraic expressions.

ALGEBRA I

Full Year, Grade 8

This course covers the usual topics of first year algebra: properties of the real number system, linear and quadratic functions, factoring, variation, exponents and radicals, equations and inequalities, and problem solving.

ACCELERATED ALGEBRA I

Full Year, Grades 7 and 8

This challenging course covers the traditional topics in Algebra I, but it also includes additional topics in algebra, develops advanced problem solving skills, and helps the students develop tools for success in mathematics competitions. Extra topics include a more in-depth study of quadratic and polynomial functions, optimization, special factorizations, and complex numbers.

ACCELERATED GEOMETRY

Full Year, Grade 8

This course presents an in-depth approach to Euclidean geometry with challenging applications. Emphasis is placed on deductive reasoning throughout the course. The course also includes a study of trigonometry as well as topics in non-Euclidean and analytical geometries.

HONORS ALGEBRA I

Full Year, Grade 9

This course covers the usual topics of first year algebra: properties of the real number system, linear and quadratic functions, factoring, variation, exponents and radicals, equations and inequalities, and problem solving.

HONORS GEOMETRY

Full Year, Grades 9 and 10

Students gain an appreciation for deductive reasoning and the connection between geometry and the real world in a course that deals with Euclidean geometry of two and three dimensions. Although emphasis is placed on geometric relationships, algebraic applications and coordinate geometry are used throughout the course. Students are also introduced to the trigonometry of right triangles and to its extension to acute and obtuse triangles. As time permits, other topics of interest include an introductory study of non-Euclidean geometries.

HONORS ACCELERATED GEOMETRY

Full Year, Grade 9

This course presents a more in-depth approach to Euclidean geometry with more difficult applications than those in Honors Geometry. Greater emphasis is placed on deductive reasoning throughout the course with more challenging proofs. The course also includes a study of trigonometry as well as topics in non-Euclidean and analytical geometries.

HONORS ALGEBRA II

Full Year, Grades 10 and 11

The emphasis of this course is on functions and graphing. In particular, it includes quadratic and higher degree polynomial functions and equations, rational functions, conic sections, and systems of equations. Also included is an introduction to probability and statistics, as well as matrices and determinants.

HONORS ACCELERATED ALGEBRA II

Full Year, Grades 9 and 10

This course incorporates Honors Algebra II, but with a greater emphasis on curve sketching and problem solving. Linear programming, trigonometry of oblique and right triangles, and trigonometric identities are also included. Graphing calculators are used extensively.

FUNCTIONS AND DATA ANALYSIS

Full Year, Grades 11 and 12

This course analyzes families of functions and the transformations of their graphs. Special emphasis is given to trigonometric functions. Basic statistical methods and an introduction to limits and derivatives are also included. This course does not constitute an adequate preparation for AP Calculus. Prerequisite: Honors Algebra II

HONORS PRECALCULUS

Full Year, Grades 11 and 12

This course covers algebraic and transcendental functions with both a theoretical and an applied approach. The emphasis during the first semester is on an in-depth treatment of trigonometry. Second semester includes graphical analysis and curve sketching, sequences and series, probability, limits, and an introduction to calculus. Graphing calculators are used extensively. This course is a prerequisite for AP Calculus AB. Prerequisite: Honors Algebra II

HONORS ACCELERATED PRECALCULUS

Full Year, Grades 10 and 11

This course presents a more in-depth approach with more challenging applications than those encountered in the precalculus course. In addition, the course of study includes combinatorics, analytical geometry in three dimensions, and a more extensive introduction to calculus, including derivatives and their applications. The accelerated class is a prerequisite for AP Calculus BC. Prerequisite: Honors Accelerated Algebra II

HONORS INTRODUCTORY CALCULUS AND STATISTICS

Full Year, Grade 12

This course provides a strong background for students planning to take statistics or calculus at the college level. During the first semester, the faculty emphasizes strengthening skills in the study of functions and the concepts of differential calculus. Calculus topics include limits, methods of differentiation, and applications of the derivative and the antiderivative. The second semester includes measures of central tendency, probability theory, discrete probability distributions, normal distributions, sampling, and hypothesis testing. Prerequisite: Functions and Data Analysis or Honors Precalculus

AP CALCULUS AB

Full Year, Grade 12

This course prepares the student for the AP examination in Calculus AB. The course includes differentiation of algebraic and transcendental functions, applications of the derivative, integration, applications of the integral, and some techniques of integration. Prerequisite: Honors Precalculus

AP CALCULUS BC

Full Year, Grades 11 and 12

This course prepares students for the AP examination in Calculus BC. The course covers topics usually found in the first two semesters of college calculus. Included in these topics are an extensive treatment of differential and integral calculus, power series, calculus in polar coordinates, and introductory differential equations and vector calculus. Prerequisite: Honors Accelerated Precalculus

AP STATISTICS

Full Year, Grade 12

This course comprises exploring data, planning a study, producing models using probability and simulation, and statistical inference. Students take the AP examination in Statistics at the completion of the course. Prerequisite: Honors Precalculus or permission of the instructor

HONORS ACCELERATED ADVANCED TOPICS IN MATHEMATICS

Full Year, Grade 12

This course is offered to students who have completed AP Calculus BC and have scored a 4 or a 5 on the AP exam. Its primary concentration is in multivariable calculus – vector-valued functions, partial differentiation, multiple integrals, and vector analysis. Other topics could include differential equations, mathematical statistics, discrete math, number theory, cryptography, and graph theory.

HONORS INTRODUCTION TO COMPUTER SCIENCE

Second Semester, Grades 10-12

This introductory computer science course is more than teaching programming or coding. It is designed to help students develop logical (algorithmic) thinking and problem solving skills, to allow students to explore computer science as a possible future area of study, and to prepare students to take subsequent courses in computer science, particularly those using object-oriented programming languages like Java. Alice, a 3-D visual graphics environment designed to teach both fundamental and object-oriented programming concepts, is used in this course. Co-requisite: Honors Algebra II

HONORS ACCELERATED COMPUTER SCIENCE WITH JAVA EMPHASIS

Full Year, Grades 11 and 12

This course is a study of object-oriented programming concepts and techniques using the Java language. Though introductory, it is comprehensive and rigorous enough to provide a solid foundation for students who wish to major in computer science in college. Topics include fundamentals of the Java language, object-oriented design, data structures, and algorithms. Prerequisite: Honors Algebra II, Introduction to Computer Science is recommended but not required.

MATH ENRICHMENT QUARTER COURSES

Grade 12

These enrichment courses are electives that do not count toward MUS graduation requirements. These additional math courses are quarter sessions only:

- Advanced Problem Solving
- Number Theory
- Music and Math
- Engineering Math
- PSAT/SAT/ACT Math Preparation
- Programming the Graphing Calculator
- Graph Theory

PHYSICAL EDUCATION

The faculty and staff of MUS believe that emphasis in physical education should be on a variety of activities in a well-planned and well-conducted program. The goals are: to develop total fitness through increased movement, skill, and accuracy; to provide for the social development of the individual; to increase knowledge, favorable attitudes, and appreciation for physical fitness; and to foster better use of leisure time.

Students at Memphis University School benefit from courses and activities designed to help meet their physical and recreational needs. The program includes required class instruction and sports competition, both within the school and with other schools.

All programs have the advantages of an extensive array of facilities, including numerous playing fields, a tennis center, a modern weight room, a wrestling room, and two gymnasiums.

PHYSICAL EDUCATION

Full Year, Grades 7-11

The physical education program emphasizes the importance of physical fitness to the physical and mental health of the student. All students in Grades 7 through 11 are required to participate in physical education four days each week. Two days emphasize strength training, and two days emphasize cardiovascular conditioning. Upper School students participating in an interscholastic sport (see page 24 for listing) are exempt from daily attendance while they are under the supervision of their coach. Students who participate in a sport not offered by MUS may petition for an exemption through the department head.

RELIGION

Each religion course has a dual purpose: to expose students to a formal study of religion and to encourage students to think deeply about the personal and social significance of religion. Various methods are used to study doctrinal, ethical, philosophical, and social issues which appear in religions of the West and the East, of ancient and modern times. Students are required to take Old Testament in Grade 7, New Testament in Grade 9, and one elective in either Grade 11 or 12. All courses are one semester long and without prerequisites.

OLD TESTAMENT

One Semester, Grade 7

This course concentrates on a careful and informed reading of selected portions of the Old Testament. Emphasis is given to the historical context of the stories and their development.

NEW TESTAMENT

One Semester, Grade 9

The life and teachings of Jesus, the ministry of Paul, and the development of early Christianity comprise the three main areas of study in this course. Concentration is on careful reading and analysis of the Bible, and this is supplemented with readings and discussion about the theological, ethical, and historical background of the New Testament.

HONORS INTRODUCTION TO PHILOSOPHY AND ETHICS

One Semester, Grades 11 and 12

A survey of the foundations and development of Western philosophy and ethics from the Greeks to modern times, this course provides an opportunity for students to analyze their own worldview in light of the progress of thought throughout recorded history. Application to current challenges of society is also a goal of the class.

HONORS SELECTED TOPICS IN AMERICAN RELIGION

One Semester, Grades 11 and 12

This class offers a look at four issues from within the Christian tradition: the problem of suffering, the history of the development of the Bible in English, the nature of faith as demonstrated in the lives of selected individuals from biblical history, and gender-specific issues in understanding others.

HONORS COMPARATIVE RELIGION

One Semester, Grades 11 and 12

In this class, students survey six world religions, comparing beliefs and practices through readings and video presentations. The first half of the course presents religions of the East, and the second half studies the monolithic religions of Judaism, Christianity, and Islam.

SCIENCE

A student's education should include a working knowledge of both life science and physical science. Familiarity with laboratory procedure and equipment is progressively developed along with observational accuracy as students move through increasingly rigorous science courses. Recognizing that it is impossible to teach all of science, the science faculty strives to lay a groundwork of understanding and application of basic scientific principles, which will remain useful during any future study in science.

SCIENCE 7 (EARTH SCIENCE)

One Semester, Grade 7

This course offers an introduction to the structure and history of our planet and a survey of terrestrial phenomena ranging from continental drift to the weather. The classification of rocks and minerals is studied as an illustration of simple ideas from physics and chemistry.

SCIENCE 7 (LIFE SCIENCE)

One Semester, Grade 7

This course is designed to introduce the student to the most important concepts that he will be expected to be familiar with before taking Honors Biology in the Upper School. These concepts include cell structure and function, genetics, and human organ systems. Students will also be exposed to laboratory exercises designed to reinforce the topics discussed.

SCIENCE 8 (PHYSICAL SCIENCE)

Full Year, Grade 8

This laboratory-based course helps the student develop evidence for an atomic model of matter and offers insight and experience into the means by which scientific knowledge is acquired.

HONORS BIOLOGY

Full Year, Grade 9

This course is a survey of the most important topics dealing with living organisms, focusing on factual information as well as experimental approaches within the field of biology. Topics will include ecology, structure and function of cells, genetics, microorganisms, plants, animals, and the human body. Laboratory exercises are a major component of this course.

AP BIOLOGY

Full Year, Grades 11 and 12

This course is designed to be the equivalent of a college introductory course taken by biology majors. Topics covered include basic biological chemistry, cells, energy transformations, molecular genetics, heredity, evolution, plant and animal taxonomy, and ecology. Prerequisite: Honors Chemistry

HONORS CHEMISTRY

Full Year, Grade 10

This course offers a laboratory-based approach to understanding chemicals and their associated reactions. Familiarization with the process of science by developing hypotheses and testing predictions, as well as developing a deeper understanding of the role of chemistry in daily life, will be emphasized. Due to the nature of the quantitative problem solving in this course, the student will be expected to have an understanding of fundamental algebraic techniques. Topics include atomic theory, chemical reactions and stoichiometry, acids and bases, gas laws, aqueous solutions, thermochemistry, fundamental kinetics, and organic chemistry. Prerequisite: Honors Geometry or permission of the instructor

HONORS ACCELERATED CHEMISTRY

Full Year, Grade 10

This is a laboratory-based course designed to introduce students to the fundamentals of chemistry and the interaction of matter and energy. As an accelerated course, the material is taught at a rigorous pace and focuses heavily on quantitative problem-solving; therefore, a strong command of mathematical techniques is required. The class is designed to develop problem-solving skills at all levels: conceptually, mathematically, and through laboratory investigations. The topics in this course are similar to that of Honors Chemistry. Prerequisite: Honors Geometry

AP CHEMISTRY

Full Year, Grades 11-12

This course is designed to provide the students with an in-depth understanding of fundamental chemical concepts and build strong computational skills. It fosters proper lab techniques and safety. By using basic themes (kinetic theory and intermolecular forces) and mathematical formulation of principles, students are required to reason through chemical problems and formulate opinions and express their ideas. The class meets basic college chemistry requirements, with both a lecture and lab component. All students are expected to take the College Board AP Chemistry exam at the end of the course. Prerequisites: Honors Chemistry, Honors Algebra II, and consent of instructor is required

HONORS PHYSICS

Full Year, Grades 11 and 12

The Honors Physics class covers a broad range of topics in basic physics, including mechanics, electricity and magnetism, and optics. This class is designed for students who have reasonable skill in mathematics, and who wish to gain a broad understanding of general physics principles. Prerequisite: Honors Algebra II

AP PHYSICS B

Full Year, Grades 11 and 12

The AP Physics B class covers all the topics typically covered in a first year college course for premed students and other life science majors. The course covers a broader range of topics in somewhat greater depth than what is offered in Honors Physics. Students who have confidence in their math skills and who are interested in looking at physics at a somewhat more challenging level than what they would encounter in Honors Physics should take this course. Students who have taken Honors Physics may take AP Physics B as a second physics class with permission of the department. Prerequisites: Honors Algebra II, and success in previous math and science classes. Permission of the instructor is required.

AP PHYSICS C: ELECTRICITY AND MAGNETISM

Full Year, Grades 11 and 12

In this course, the topics in a traditional second semester college course for pre-engineering, math, or physical science majors will be covered. Topics in electromagnetic theory include single-variable calculus applications in electricity, DC circuits, and magnetism. Students will also explore fundamental geometrical optics, physical optics, and sound. If time permits, students will also be exposed to relativity, early photon-electron interactions, and nuclear physics. Prerequisite: Enrollment in this course requires completion of either AP Physics B or AP Physics C Mechanics. Students also must be enrolled concurrently in AP Calculus BC or have successfully completed an AP Calculus AB class.

AP PHYSICS C: MECHANICS

Full Year, Grades 11 and 12

AP Physics C Mechanics covers topics in a traditional, first-semester college course for pre-engineering, math, or physical science majors. Topics in translational and rotational mechanics, thermodynamics, and fluids are covered in this course, with extensive applications of calculus. Students who enroll in this course must have a solid math background and curiosity to examine the most challenging, single-variable problems in physical situations. Prerequisite: A previous course in physics is strongly recommended but is not required. Concurrently enrolled in or successful completion of an AP Calculus class and permission of the instructor is required.

HONORS ACCELERATED MOLECULAR BIOLOGY

First Semester, Grades 11 and 12

This course offers in-depth coverage of the current and historical experimental approaches used to determine the mechanisms of sophisticated biological processes. Students gain a perspective on how modern biological research affects their everyday lives today, how it will influence their future, and how it will be used to improve technology in the medical, agricultural, and pharmaceutical areas. The laboratory component of this course allows students to perform experiments often limited to the university level. Students learn to read, understand, and critically evaluate primary scientific literature. Prerequisite: Honors Biology, Honors Chemistry, and consent of the instructor

**HONORS ACCELERATED
RESEARCH IN MOLECULAR BIOLOGY**

Second Semester, Grades 11 and 12

This course will give students the opportunity to participate in intense analysis of the current molecular biology knowledge base and become involved with state-of-the-art laboratory equipment and techniques. Students will learn how to pose scientific questions and implement original research projects, giving them invaluable lessons in logic and critical thinking. Our modern Molecular Biology Laboratory provides the same sort of setting, as well as equipment, used by the most prominent scientists in the world. Prerequisite: Honors Accelerated Molecular Biology and consent of the instructor

HONORS GEOLOGY

Full Year, Grades 11 and 12

This course is designed to introduce the student to geologic processes that continue to shape our planet. Students become familiar with modern research on the origin of earthquakes, the theory of plate tectonics, the life history of volcanoes, the natural history of the earth, the evolution of life through various epochs, and the geologic history of Tennessee. Environmental issues are addressed as they arise.

ENVIRONMENTAL ISSUES

One Semester, Grades 11 and 12

The major concepts and topics of this course are conservation and protection of natural resources; the effect of human actions on the environment; populations, ecosystems, and biodiversity of organisms; energy relationships and resources; and environmental economics and politics.

**HONORS ACCELERATED
ENVIRONMENTAL SCIENCE**

Full Year, Grades 11 and 12

The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. The course will include a strong lab and field component.

STUDENT ACTIVITIES

Memphis University School students can participate in an expansive student-activities program. In addition to theater, athletics, publications, art, music, and social activities, the club system enables small groups of students, with similar interests, to create and develop organized, teacher-sponsored activities.

All students are encouraged to participate in some activity outside the classroom, and time during the school day has been set aside for participation in school clubs or other activities. Participation in student activities is, for the most part, unrestricted, limited only in individual cases by time and quality of academic work.

CLUBS

Students can join several of the more than 30 clubs of popular interest. One example, the Government Club, provides opportunities for students interested in debate, politics, and government. These members may participate in two Model United Nations programs, Youth In Government, and Mock Trial. Each year, clubs such as the Wilson Society (leadership and service for seniors), Philosophes Club, the Photography Club, and the Fellowship of Christian Athletes are formed by students who wish to pursue specific interests or hobbies. Each club is sponsored by a member of the faculty.

COMMUNITY SERVICE

Community service opportunities are available to all students. Community service projects are planned and coordinated by the student-led Civic Service Organization.

DRAMATICS

The theater program offers interested students the opportunity to get involved in a creative learning experience and provides an excellent outlet for self-expression and development. Three shows are produced each year — a comedy or a drama, a student-directed play, and a musical.

Cast members are chosen from the MUS student body as well as neighboring schools. Each student has the opportunity to participate in all areas of theater, including acting, directing, stage crafts, lighting, sound, public relations, and theater house management.

HONOR SOCIETIES

Students with superior scholarship and leadership abilities should be commended. The following honorary societies serve to promote these qualities among students: Cum Laude (scholarship), Foreign Language Societies (French, Latin, and Spanish), History Honor Society, Mu Alpha Theta (mathematics), National Honor Society (character, scholarship, leadership, and service), Quill and Scroll (publications), Red and Blue Society (leadership and service), Springfield Scholars (Lower School scholarship and character), *Societas Caritatis* (civic service), and Order of the Owl (Lower School scholarship).

INTERSCHOLASTIC SPORTS

The athletic program helps support the mission of the school. As an extension of the classroom, athletics provide students with a chance to compete, achieve goals, and become well-rounded young men of strong moral character. Students compete with other schools in 14 sports: cross country, football, and golf in the fall; basketball, bowling, fencing, swimming, and wrestling in the winter; and baseball, lacrosse, soccer, tennis, track and field, and trapshooting in the spring. More than 75 percent of the students participate on one or more of the interscholastic teams as a player or a manager. Boys are encouraged to participate in one or more sports during their years at MUS and to enjoy the experience offered by athletic competition. The interscholastic sports program for Grades 9-12, exclusive of lacrosse, fencing, swimming, and trapshooting, is governed by the Tennessee Secondary School Athletic Association (TSSAA). Participation on all teams is subject to the approval of the coaches and TSSAA regulations on eligibility.

INTERSCHOLASTIC SPORTS LISTING

Fall Sports (August-October)

Varsity Cross Country
Junior Varsity Cross Country
Lower School Cross Country
Varsity Football
Junior Varsity Football
Freshmen Football
Eighth-Grade Football
Seventh-Grade Football
Varsity Golf
Lower School Golf

Winter Sports (November-February)

Varsity Basketball
Junior Varsity Basketball
Freshmen Basketball
Eighth-Grade Basketball
Seventh-Grade Basketball
Varsity Bowling
Varsity Fencing
Lower School Fencing
Varsity Swimming
Lower School Swimming
Varsity Wrestling
Freshmen Wrestling
Lower School Wrestling

Spring Sports (March-May)

Varsity Baseball
Junior Varsity Baseball
Eighth-Grade Baseball
Seventh-Grade Baseball
Varsity Lacrosse
Junior Varsity Lacrosse
Lower School Lacrosse
Varsity Soccer
Junior Varsity Soccer
Freshmen Soccer
Eighth-Grade Soccer
Seventh-Grade Soccer
Varsity Tennis
Lower School Tennis
Varsity Track
Junior Varsity Track
Lower School Track
Varsity Trapshooting

STUDENT GOVERNMENT

Student government is an integral part of the daily operation of the school. The Student Council sponsors activities that focus on school service, education, and social events for the student body.

STUDENT PUBLICATIONS

Award-winning publications include the year-book (The Owl®), student newspaper (The Owl's Hoot®), and literary magazine (The MUSE®).

SUMMER PROGRAM

During the summer, the school operates an abbreviated academic program that includes British Literature II, which rising seniors may take for credit. There are two study abroad programs: MUS in Europe for credit and MUS in Guatemala for language immersion. For students entering seventh and eighth grades, several non-credit enrichment courses in English, math, and reading are offered. In addition, a driver's education class, leadership development programs, academic adventures, and various sports camps are available.

LOWER SCHOOL ACTIVITIES

ORGANIZATIONS

- Student Council
- Honor Council
- Civic Service Organization
- Order of the Owl (Honor Society)
- Springfield Scholars (Honor Society)
- Drug Free Club
- Latin Club
- Spanish Club
- Chess Club
- Various interest clubs

HAPPENINGS

- Owl Camp (seventh-grade orientation)
- Math Team
- Latin Convention
- Theater Productions
- Computer Lab
- Spelling Bee
- Knowledge Masters Competition
- Lower School Dance
- Lower School Golf Tournament
- YMCA Middle School Model U.N.
- YMCA Middle School Youth Legislature
- Peer Tutoring
- Eighth-Grade Mentoring with Upper School Student Leaders

UPPER SCHOOL ACTIVITIES

ORGANIZATIONS

- Student Council
- Honor Council
- Civic Service Organization
- Government Club
- Singing Group - Beg To Differ®
- Yearbook Staff - The Owl®
- Newspaper Staff - The Owl's Hoot®
- Literary Magazine Staff - The MUSE®

CLUBS (PARTIAL LISTING)

- Book Clubs
- Fellowship of Christian Athletes
- Insights (cultural awareness club)
- Diversity Club
- Petanque (French lawn bowling club)
- Frisbee Club
- Pick the Winners
- Spanish Club
- Latin Club
- French Club
- Young Republicans
- Young Democrats
- Computer Club
- Musicians Club
- Students Against Drunk Driving
- Cinemagic Club
- Climbing Club
- Environmental Club
- Math Club
- Mountain Biking Club
- Chess Club
- Philosophes (philosophy club)
- Photography Club
- Rotisserie Club



MEMPHIS UNIVERSITY SCHOOL

MEMPHIS UNIVERSITY SCHOOL IS A COLLEGE-PREPARATORY SCHOOL DEDICATED TO ACADEMIC EXCELLENCE AND THE DEVELOPMENT OF WELL-ROUNDED YOUNG MEN OF STRONG MORAL CHARACTER, CONSISTENT WITH THE SCHOOL'S CHRISTIAN TRADITION.

MEMPHIS UNIVERSITY SCHOOL DOES NOT DISCRIMINATE ON THE BASIS OF RACE, RELIGION, COLOR, OR NATIONAL OR ETHNIC ORIGIN IN ADMINISTRATION OF ITS EDUCATIONAL POLICIES, ADMISSION POLICIES, FINANCIAL AID PROGRAMS, OR ATHLETIC AND SCHOOL-ADMINISTERED PROGRAMS.

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