

A UNIVERSITY of
MARYLAND
PUBLICATION

The seal of the University of Maryland, featuring a central figure holding a staff and a shield, surrounded by the text "UNIVERSITY OF MARYLAND" and "1856".

Volume 4

DECEMBER 15, 1951

Number 15

**SUMMER
SESSION**



1952 ISSUE

UNIVERSITY OF MARYLAND; College Park, Maryland

UPUB
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1952

IMPORTANT

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For information in reference to the University grounds, buildings, equipment, library facilities, requirements in American Civilization, definition of resident and non-resident, regulation of studies, degrees and certificates, transcripts of records, student health and welfare, living arrangements in the dormitories, off-campus housing, meals, University Counseling Service, scholarships, student government, honors and awards, religious fraternities, societies and special clubs, the University and Student publications, University Post Office and Supply Store, write to the Director of Publications for the General Information Issue of the Catalog.

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Volume 4

December 15, 1951

Number 15

A UNIVERSITY OF MARYLAND PUBLICATION

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AND

MARYLAND STATE BOARD OF AGRICULTURE

*Term
Expires*

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The State law provides that the Board of Regents of the University of Maryland shall constitute the Maryland State Board of Agriculture.

A regular meeting of the Board is held the last Friday in each month, except during the months of July and August.

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Religious Life Committee

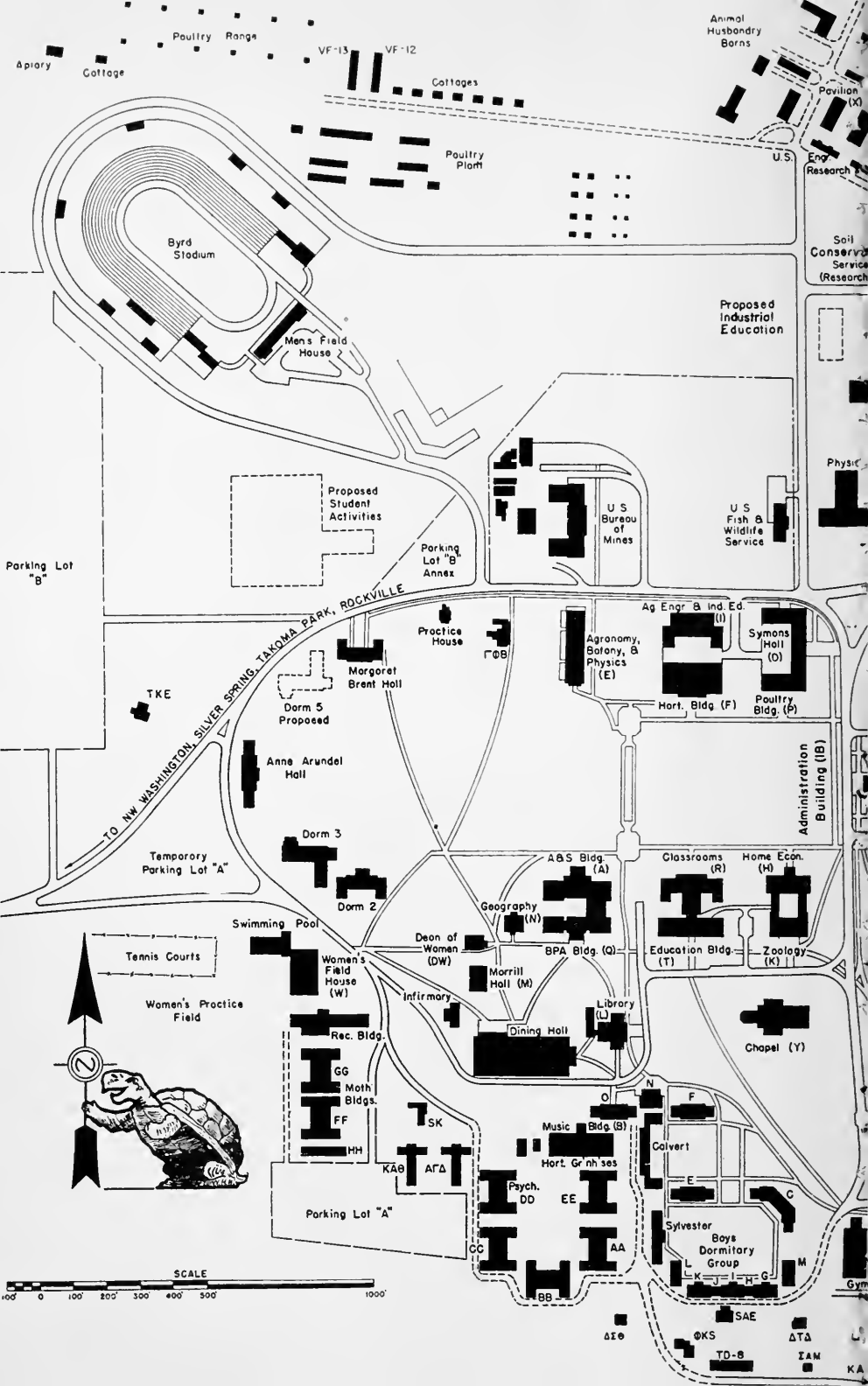
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Poultry Range

VF-13 VF-12

Animal Husbandry Barns

Apiary Cottage

Cottages

Poultry Plant

Byrd Stadium

Mens Field House

Proposed Industrial Education

Proposed Student Activities

Parking Lot "B" Annex

U S Bureau of Mines

U S Fish & Wildlife Service

Parking Lot "B"

ROCKVILLE

Practice House

Margaret Brent Hall

Agronomy, Botany, & Physics (E)

Ag Engr & Ind. Ed. (I)

Symons Hall (O)

TKE

Dorm 5 Proposed

Hort. Bldg. (F)

Poultry Bldg. (P)

TO NW WASHINGTON, SILVER SPRING, TAKOMA PARK, ROCKVILLE

Anne Arundel Hall

Temporary Parking Lot "A"

Dorm 3

A.S. Bldg. (A)

Classrooms (R)

Home Econ. (H)

Swimming Pool

Dorm 2

Geography (N)

Education Bldg. (T)

Zoology (K)

Tennis Courts

Women's Practice Field

Women's Field House (W)

Dean of Women (DW)

BPA Bldg. (Q)

Education Bldg. (T)

Zoology (K)

Infirmary

Dining Hall

Library (L)

Chapel (Y)

Rec. Bldg.

GG Moth Bldgs.

FF

SK

Music Bldg. (B)

Hort. Grn h ses

Covert

Parking Lot "A"

K&B AFΔ

Psych. DD

EE

Covert

Sylvester

Boys Dormitory Group

CC

AA

L

H-G

BB

AA

M

Gym

SCALE

0 100 200 300 400 500 1000

ΔEΘ

ΘKS

SAE

ΔTΔ

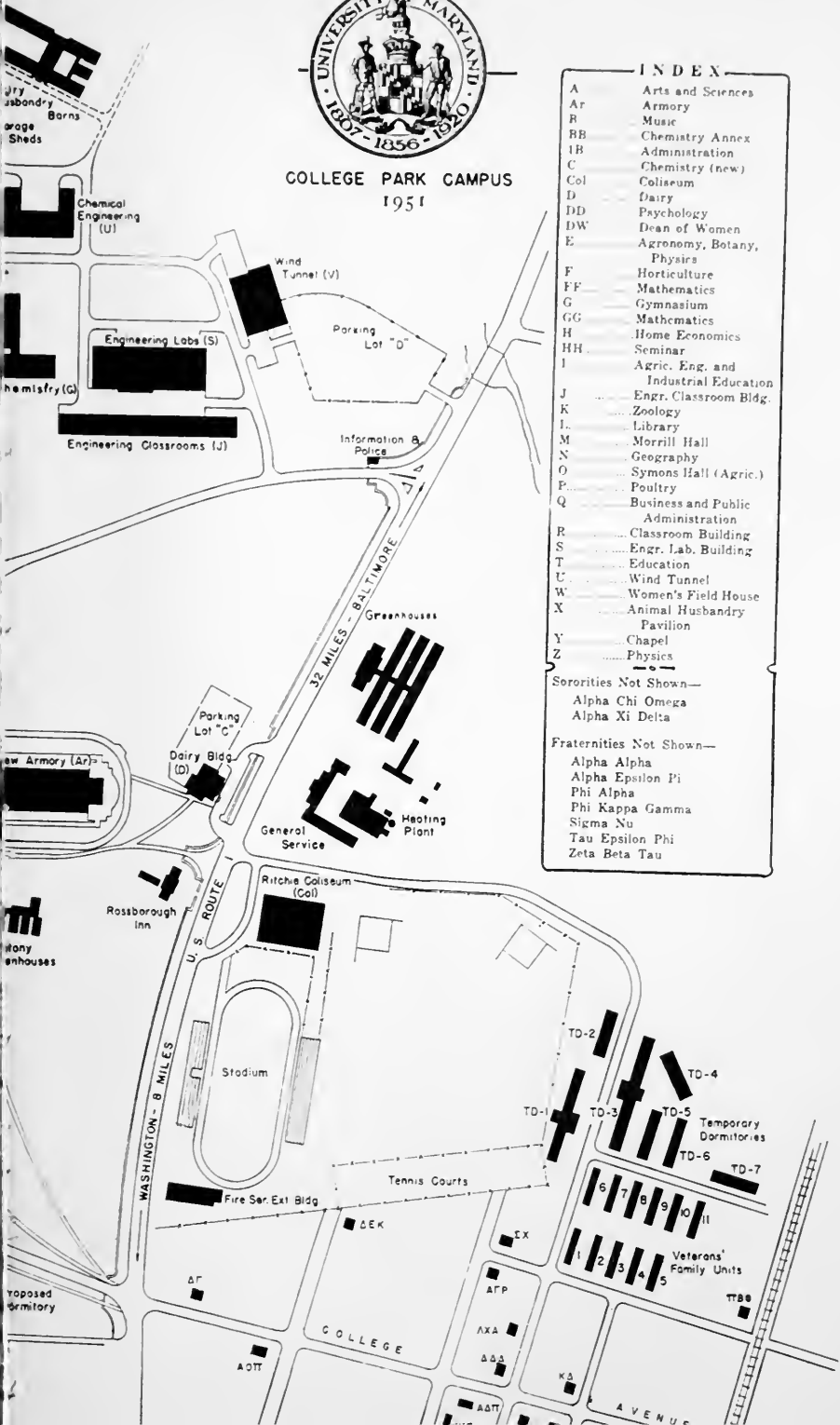
TD-8

ΣAM

KΔ



COLLEGE PARK CAMPUS
1951



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- A Arts and Sciences
 - Ar Armory
 - B Music
 - BB Chemistry Annex
 - 1B Administration
 - C Chemistry (new)
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 - D Dairy
 - DD Psychology
 - DW Dean of Women
 - E Agronomy, Botany, Physics
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1952

JULY							AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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1953

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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JULY							AUGUST							SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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1954

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE						
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EASTER SUNDAYS : April 13, 1952; April 5, 1953; April 18, 1954.

CALENDAR — 1952-1953
COLLEGE PARK

1952

September 16-19
September 22
October 16
November 26
December 1
December 20

Tuesday-Friday
Monday
Thursday
Wednesday after last class
Monday, 8 a. m.
Saturday after last class

Registration, first semester
Instruction begins
Convocation, faculty and students
Thanksgiving recess begins
Thanksgiving recess ends
Christmas recess begins

1953

January 5
January 20
January 20
January 21-28

Monday, 8 a. m.
Tuesday
Tuesday
Wednesday-Wednesday, inc.

Christmas recess ends
Inauguration Day, holiday
Charter Day
First semester examinations

Second Semester

February 3-6
February 9
February 23
March 25
April 2
April 7
May 14
May 30
May 28-June 5
May 31
June 6

Tuesday-Friday
Monday
Monday
Wednesday
Thursday after last class
Tuesday, 8 a. m.
Thursday
Saturday
Thursday-Friday, inc.
Sunday
Saturday

Registration, second semester
Instruction begins
Washington's Birthday holiday
Maryland Day
Easter recess begins
Easter recess ends
Military Day
Memorial Day, holiday
Second semester examinations
Baccalaureate exercises
Commencement exercises

Summer Session, 1953

June 22
June 23
July 31

Monday
Tuesday
Friday

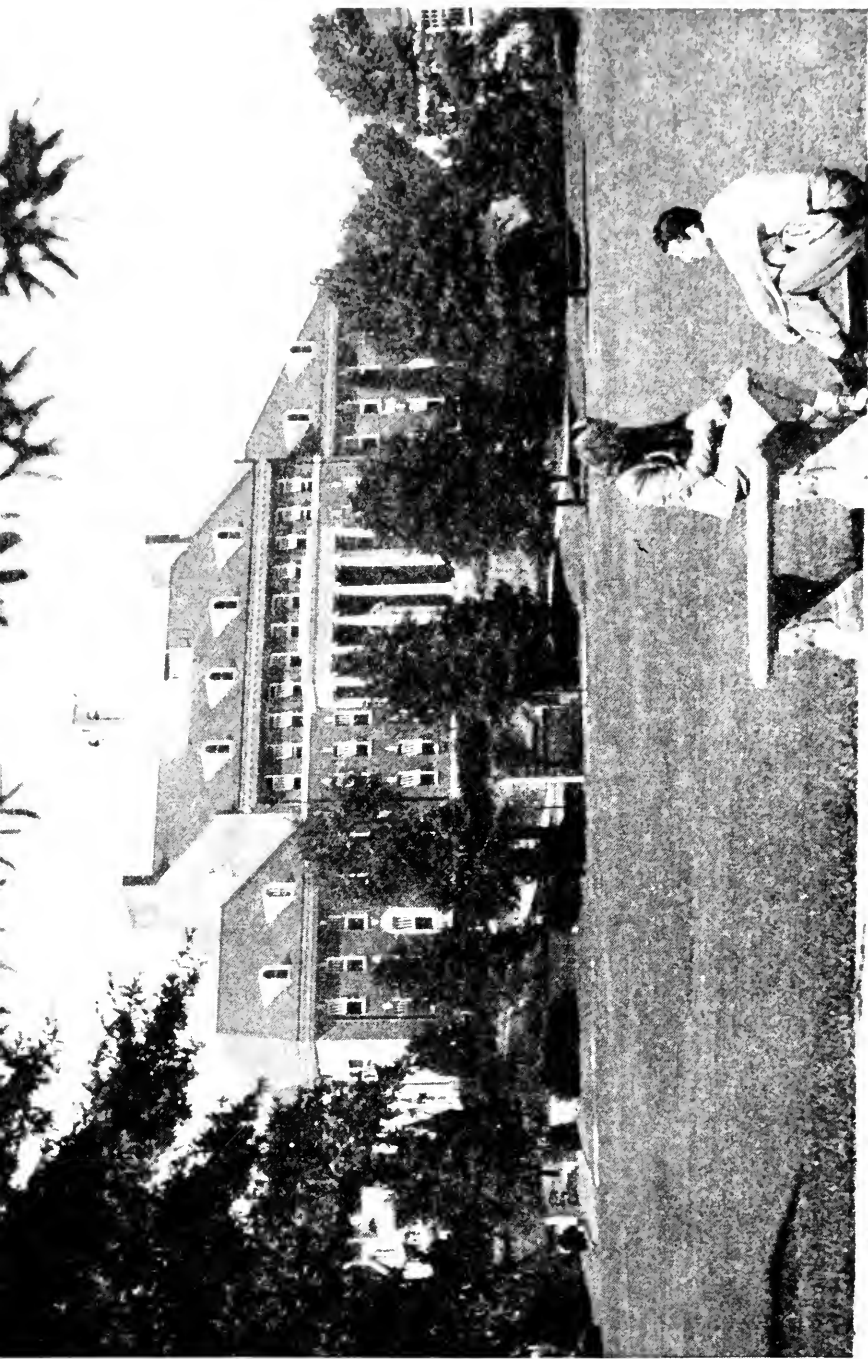
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Summer session begins
Summer session ends

Short Courses

June 15-20
July 7-10
August 3-8
September 1-4

Monday-Saturday
Tuesday-Friday
Monday-Saturday
Tuesday-Friday

Rural Women's Short Course
Maryland Congress of Parents and Teachers
4-H Club Week
Firemen's Short Course



Summertime on the College Park Campus



Entrance to College of Business and Public Administration

SUMMER SESSION, 1952

FACULTY

Wilbur Devilbiss, Ed.D., Director

- AHALT, ARTHUR M., B.S., 1931, University of Maryland; M.S., 1937, Pennsylvania State College. Professor and Head of Agricultural Education.
- ADAMS, FRANCIS R., JR., A.B., 1938, Williams College; M.A., 1947, University of Maryland. Instructor in English.
- ANASTOS, GEORGE, B.S., 1942, University of Akron; M.A., 1947, Ph.D., 1949, Harvard University. Associate Professor of Zoology.
- ANDERSON, JAMES R., B.S., 1941, A.B., 1947, M.A., 1947, Indiana University; Ph.D., 1951, University of Maryland. Assistant Professor of Geography.
- ANDREWS, THOMAS G., B.A., 1937, University of Southern California; M.A., 1939, Ph.D., 1941, University of Nebraska. Professor and Head, Department of Psychology.
- ARBUCKLE, WENDELL S., B.S., 1933, Purdue University; M.A., 1937, Ph.D., 1940, University of Missouri. Professor of Dairy Manufacturing.
- ASH, WILLARD O., B.A., 1937, St. John's College (Annapolis); M.A., 1941, University of Maryland. Assistant Professor of Statistics.
- AYERS, ARTHUR W., A.B., 1933, M.A., 1937, Ph.D., 1940, The Pennsylvania State College. Associate Professor of Psychology.
- BAILEY, WILLIAM L., M.A., 1904, Queens College. Visiting Lecturer in Sociology.
- BAKER, S. HARRY, JR., A.B., B.E., 1924, M.A., 1926, Ed.D., 1946, George Washington University. Director of Special Education in Secondary White Schools of the District of Columbia Public School System. Visiting Lecturer in Education.
- BALL, CECIL R., A.B., 1923, William and Mary College; M.A., 1934, University of Maryland. Associate Professor of English.
- BARNES, JACK CARLISLE, A.B., 1939, M.A., 1947, Duke University. Instructor in English.
- BATES, J. LEONARD, A.B., 1941, Wake Forest College; M.A., 1946, Ph.D., 1952, University of North Carolina. Instructor in History.
- BAUER, RICHARD H., Ph.B., 1924; M.A., 1928; Ph.D., 1935, University of Chicago. Associate Professor of History.
- BEALL, OTHO T., A.B., 1930, Williams College; M.A., 1933, University of Minnesota; Ph.D., 1952, University of Pennsylvania. Instructor in English.
- BEATTY, WALCOTT H., M.A., 1947, Ph.D., 1952, University of Chicago. Assistant Professor of Education, Institute for Child Study.

- BENNETT, WILMA, A.B., 1926, Butler University; B.S.L.S., 1937, Western Reserve University; M.A., 1943, Graduate Library School, University of Chicago. Visiting Lecturer in Library Science.
- BLACKLOCK, JOSIAH A., B.S., 1940, M.Ed., 1948, University of Maryland. Supervising Principal of North Point Edgemere School, Baltimore County. Visiting Lecturer in Education.
- BODE, CARL, Ph.B., 1933, University of Chicago; M.A., 1938, Ph.D., 1941, Northwestern University. Professor of English.
- BOOTON, MARJORIE M., B.S., 1938, Longwood College; M.S., 1942, Teachers College, Columbia University. Art Specialist, District of Columbia Public Schools. Visiting Lecturer in Education.
- BRAUCHER, PELA F., B.A., 1927, Goucher College; M.S., 1929, Pennsylvania State College. Associate Professor of Home Economics.
- BRECHBILL, HENRY, A.B., 1911, Blue Ridge College; M.A., 1917, University of Pittsburgh; Ph.D., 1933, George Washington University. Professor of Education and Assistant Dean of the College of Education.
- BROWN, GLEN D., A.B., 1916, Indiana State Teachers' College; M.A., 1931, University of Indiana. Professor and Head of Department of Industrial Education.
- BROWN, RUSSELL G., B.S., 1929, M.S., West Virginia University; Ph.D., 1934, University of Maryland. Associate Professor of Botany.
- BRYAN, MARIE D., B.A., 1923, Goucher College; M.A., 1945, University of Maryland. Assistant Professor of Education.
- BURDETTE, FRANKLIN L., A.B., 1934, Marshall College; M.A., 1935, University of Nebraska; M.A., 1937, Ph.D., 1938, Princeton University. Professor and Head of Department of Government and Politics.
- BURHOE, SUMNER O., B.S., 1925, Massachusetts Agricultural College; M.S., 1926, Kansas State College; Ph.D., 1937, Harvard University. Professor of Zoology.
- BYRNE, RICHARD H., A.B., 1938, Franklin and Marshall College; M.A., 1947, Columbia University. Associate Professor of Education.
- CALHOUN, CHARLES E., B.A., 1925, M.B.A., 1930, University of Washington. Professor of Finance.
- CARL, MARY K., B.S., 1945, Johns Hopkins University; Ph.D., 1950, University of Maryland; Educational Adviser, College of Special and Continuation Studies, University of Maryland, Baltimore. Visiting Lecturer in Education.
- CHEEK, EMMETT M., A.B., 1948, M.A., 1950, University of North Carolina. Instructor in Physical Education.
- CLEMENS, ELI W., B.S., 1930, Virginia Polytechnic Institute; M.S., 1934, University of Illinois; Ph.D., 1940, University of Wisconsin. Professor of Business Administration.

- COOK, J. ALLAN, B.A., 1928, College of William and Mary; M.B.A., 1936, Harvard Business School; Ph.D., 1947, Columbia University. Associate Professor of Marketing.
- COOLEY, FRANKLIN D., A.B., 1927, Johns Hopkins University; M.A., 1933, University of Maryland; Ph.D., 1940, Johns Hopkins University. Associate Professor of English.
- CORY, ERNEST N., B.S., 1909, M.S., 1914, Maryland Agricultural College; Ph.D., 1926, American University. Professor and Head of Entomology Department and State Entomologist; Assistant Director of Extension.
- COX, CARROLL E., A.B., 1938, University of Delaware; M.S., 1940, Virginia Polytechnic Institute; Ph.D., 1943, University of Maryland. Associate Professor of Plant Pathology.
- CRONIN, FRANK H., B.S., 1946, University of Maryland. Assistant Professor of Physical Education.
- CROOK, COMPTON N., B.S., 1932, M.A., 1933, George Peabody College for Teachers. Professor of Biology, State Teachers' College, Towson. Visiting Lecturer in Education.
- CROW, JANE H., B.S., 1937, Salem College; M.S., 1938, University of Maryland. Assistant Professor of Home Management.
- CROWELL, ALFRED A., A.B., 1929, M.A., 1934, University of Oklahoma; M.S., 1940, Northwestern University. Professor and Head of Department of Journalism and Public Relations.
- CUNZ, DIETER, Ph.D., 1934, University of Frankfurt. Professor of Foreign Languages.
- DAIKER, JOHN A., B.S., 1941, M.B.A., 1951, University of Maryland. Assistant Professor of Accounting.
- DEACH, DOROTHY F., B.S., 1931, M.S., 1932, University of Illinois; Ph.D., 1951, University of Michigan. Professor and Head of Department of Physical Education for Women.
- DEMAREE, CONSTANCE H., A.B., 1944, M.A., 1945, University of Maryland. Instructor in English.
- DENECKE, LENA S., B.S., 1936, State College for Teachers, Buffalo, New York; Graduate Studies, University of Buffalo, Teachers College, Columbia University. Formerly Supervising Teacher, State College Laboratory School (Elementary), Buffalo, New York. Visiting Lecturer in Education.
- DENECKE, MARIE, B.S., 1938, Teachers College of Columbia University; M.Ed., 1942, University of Maryland. Assistant Professor of Education.
- DEVILBISS, WILBUR, A.B., 1925, Western Maryland College; A.M., 1935, University of Maryland; Ed.D., 1946, George Washington University. Professor of Education, Dean, College of Education, Director of Summer Session.
- DEWEY, CHARLES S., B.S., 1919, Pomona College; A.M., 1920, Ph.D., 1924, Harvard University. Assistant Professor of Inorganic Chemistry.

- DEWEY, ROBERT E., B.A., 1943, University of Nebraska; M.A., 1947, Ph.D., 1949, Harvard University. Assistant Professor of Philosophy.
- DILDINE, GLENN C., B.A., 1929, DePauw University; M.A., 1930, Ph.D., 1934, Northwestern University. Professor of Education, Institute for Child Study.
- DIXON, ROBERT G., JR., A.B., 1943, Ph.D., 1947, Syracuse University. Assistant Professor of Government and Politics.
- DOETSCH, RAYMOND N., B.S., 1942, University of Illinois; M.A., 1943, Indiana University; Ph.D., 1948, University of Maryland. Assistant Professor of Bacteriology.
- DUGGER, WILLIE M., B.S., 1941, University of Georgia; M.S., 1942, University of Wisconsin; Ph.D., 1950, North Carolina State College. Assistant Professor of Plant Physiology.
- ELLMORE, M. FRANKLIN, B.S., 1942, M.S., 1949, University of Maryland. Instructor in Dairy Husbandry.
- FABER, JOHN E., JR., B.S., 1926, M.S., 1927, Ph.D., 1937, University of Maryland. Professor and Head, Department of Bacteriology.
- FALLS, WILLIAM F., B.A., 1922, University of North Carolina; Ph.D., 1932, University of Pennsylvania. Professor of Foreign Languages.
- FRALEY, L. M., A.B., 1928, Randolph Macon; M.A., 1937, Ph.D., 1939, Peabody College. Dean of the College of Physical Education, Recreation and Health.
- GAUCH, HUGH G., B.S., 1935, Miami University; M.S., 1937, Kansas State College; Ph.D., 1939, University of Chicago. Professor of Plant Physiology.
- GEWEHR, WESLEY M., Ph.B., 1911, M.A., 1912, Ph.D., 1922, University of Chicago. Professor of History.
- GIENGER, GUY W., B.S., 1933, M.S., 1936, University of Maryland. Associate Professor of Agricultural Engineering.
- GOOD, RICHARD A., A.B., 1939, Ashland College; M.A., 1940, Ph.D., 1945, University of Wisconsin. Assistant Professor of Mathematics.
- GORDON, DONALD C., B.A., 1934, College of William and Mary; M.A., 1938, Ph.D., 1947, Columbia University. Assistant Professor of History.
- GORDON, IRA J., B.B.A., 1943, City College of New York; M.A., 1947, Ed.D., 1950, Teachers College, Columbia University. Assistant Professor of Education, Institute for Child Study.
- GRAVELY, WILLIAM H., JR., B.A., 1925, College of William and Mary; M.A., 1934, University of Virginia. Assistant Professor of English.
- GREEN, WILLARD W., B.S., M.S., Ph.D., University of Minnesota. Professor of Animal Husbandry.
- GREENE, JOHN D., B.S., 1938, Louisiana Polytechnic Institute; M.A., Louisiana State University; Ed.D., 1952, University of Maryland. Assistant Professor of Education, Institute for Child Study.

- GREENSPAN, DONALD, B.S., 1948, New York University Teachers College; M.S., 1949, University of Wisconsin. Instructor in Mathematics.
- GROLLMAN, SIDNEY, B.S., 1947, M.S., 1949, University of Maryland. Instructor in Zoology.
- GRUCHY, ALLAN G., B.S., 1926, University of British Columbia; M.A., 1929, McGill University; Ph. D., 1931, University of Virginia. Professor of Economics.
- HACKMAN, RAY C., B. A., 1935; M.A., 1936, University of Nebraska; Ph.D., 1940, University of Minnesota. Associate Professor of Psychology.
- HALL, DICK W., B.S., 1934, M.S., 1935, Ph.D., 1938, University of Virginia. Professor of Mathematics.
- HARMAN, SUSAN E., B.Ed., 1916, Peru State Teachers College; A.B., 1917, M.A., 1918, University of Nebraska; Ph.D., 1926, Johns Hopkins University. Professor of English.
- HARVEY, ELLEN E., B.S., 1935, New College; M.A., 1941, Columbia University; Ed.D., 1951, University of Oregon. Assistant Professor of Recreation.
- HAUT, IRVIN C., B.S., 1928, University of Idaho; M.S., 1930, State College of Washington; Ph.D., 1933, University of Maryland. Professor and Head of Horticulture; Director of Experiment Station.
- HEINTZ, ROY K., A.B., 1938, University of Missouri; M.A., 1944, Washington University; Ph.D., 1947, Princeton University. Assistant Professor of Psychology.
- HENRY, RUTH E., B.A., 1951, University of Maryland. Instructor in Nursery School Education.
- HORNBAKE, R. LEE, B.S., 1934, State Teachers' College, California, Pa.; A.M., 1936, Ph.D., 1942, Ohio State University. Professor of Industrial Education.
- IMSE, THOMAS P., B.A., 1941, M.A., 1942, Marquette University. Instructor in Sociology.
- JACKSON, STANLEY B., A.B., 1933, Bates College; A.M., 1934, Ph.D., 1937, Harvard University. Professor of Mathematics.
- JEFFERS, WALTER F., B.S., 1935, M.S., 1937, Ph.D., 1939, University of Maryland. Professor of Plant Pathology.
- JENKINS, DAVID S., B.A., 1930, St. John's College (Annapolis); M.A., 1942, Ph.D., 1950, University of Maryland. Superintendent of Schools, Anne Arundel County. Visiting Lecturer in Education.
- JOHNSON, WARREN R., B.A., 1942, M.A., 1947, University of Denver; Ed.D., 1950, Boston University. Professor of Physical Education.
- JULL, MORLEY A., B.S., 1908, University of Toronto; M.S., 1914, McGill University; Ph. D., 1921, University of Wisconsin. Professor and Head of Poultry.

- KEHOE, JAMES H., B.S., 1940, University of Maryland. Associate Professor of Physical Education and Intramural Director.
- KEMBLE, MARY F., B.S., 1930, Public School Music; B.S., Secondary Education, 1936, Mansfield State Teachers' College; M.S., 1940, University of Pennsylvania. Instructor in Music Education.
- KERR, MALCOLM H., B.S., 1925, M.S., 1930, Iowa State College. Associate Professor of Animal Husbandry.
- KEY, MARGUERITE F., B.S., 1944, Northern Illinois State Teachers College; M.P.H., 1946, University of Michigan. Assistant Professor of Health Education.
- KRAMER, CHARLES F., Ph.B., 1911, A.M., 1912, Dickinson College. Associate Professor of Foreign Languages.
- KRIMEL, DONALD W., B.E., 1941; Ph.M., 1946, University of Wisconsin. Associate Professor of Public Relations.
- KUHN, ALBIN O., B.S., 1938, M.S., 1939, Ph.D., 1948, University of Maryland. Professor and Head of Agronomy.
- KURTZ, JOHN J., B.A., 1935, University of Wisconsin; M.A., 1940, Northwestern University; Ph.D., 1947, University of Chicago. Associate Professor of Education, Institute for Child Study.
- LAFFER, NORMAN C., B.S., 1929, Allegheny College; M.S., 1932, University of Maine; Ph.D., 1937, University of Illinois. Associate Professor of Bacteriology.
- LEJINS, PETER P., Master of Philosophy, 1930, Master of Law, 1933, University of Latvia; Ph.D., 1938, University of Chicago. Professor of Sociology.
- LOVE, ELIZABETH P., B.S., 1928, University of Massachusetts; M.S., 1947, Pennsylvania State College. Instructor in Home Management.
- LUTWACK, LEONARD, A.B., 1939, M.A., 1940, Wesleyan University; Ph.D., 1950, Ohio State University. Instructor in English.
- MALEY, DONALD, B.S., 1943, State Teachers' College, California, Pa.; M.A., 1947, Ph.D., 1949, University of Maryland. Associate Professor of Industrial Education.
- MASSEY, BENJAMIN H., A.B., 1938, Erskine College; M.S., 1947, Ph.D., 1950, University of Illinois. Professor of Physical Education.
- MAYER, LYLE V., B.A., 1938, University of North Dakota; M.A., 1943, Stanford University. Instructor in Speech.
- MCCORMIC, MARY T., A.B., 1943, M.A., 1950, University of North Carolina. Assistant Professor of Health Education.
- MCLARNEY, WILLIAM J., B.A., 1929, B.S., 1930, University of Iowa; M.A., 1935, Columbia University. Associate Professor of Industrial Management.
- MEHEGAN, JOHN F., B.A., 1949, M.A., 1951, Johns Hopkins University. Instructor in Mathematics.

- MERSON, MADELAINE, B.S., Drake University; M.A., 1945, Ph.D., 1950, University of Chicago. Professor of Education, Institute for Child Study.
- MITCHELL, T. FAYE, B.S., 1930, Southwestern State Teachers College, Springfield, Missouri; M.A., 1938, Teachers College, Columbia University. Professor and Head of the Department of Textiles and Clothing.
- MOHR, DOROTHY R., B.S., 1932, M.A., 1933, University of Chicago; Ph.D., 1944, University of Iowa. Associate Professor of Physical Education.
- MOONEY, EMORY AUBERT, JR., A.B., 1930, Furman University; M.A., 1933, University of Virginia; Ph.D., 1937, Cornell University. Associate Professor of English.
- MORGAN, DELBERT T., B.S., 1940, Kent State University, Ohio; M.A., 1942, Ph.D., 1948, Columbia University. Assistant Professor of Botany.
- MORGAN, H. GERTHON, B.A., 1940, Furman University; M.A., 1943, Ph.D., 1946, University of Chicago. Professor of Education, Institute for Child Study.
- MOUNCE, EARL W., B.S., 1921, A.B., 1927, M.A., 1922, LL.B., 1929, University of Missouri; LL.M., 1945, National University. Associate Professor of Business Law.
- MURPHY, CHARLES D., A.B., 1929, University of Wisconsin; M.A., 1930, Harvard University; Ph.D., 1940, Cornell University. Professor of English.
- MURRAY, RAY A., B.S., 1934, University of Nebraska; M.A., 1938, Ph.D., 1949, Cornell University. Associate Professor of Agricultural Education.
- NEUMANN, WILLIAM L., B.S., 1934, New York State Teachers College; M.A., 1939, Ph.D., 1946, University of Michigan. Assistant Professor of History.
- NEWELL, CLARENCE A., A.B., 1935, Hasting College; M.A., 1939, Ph.D., 1943, Columbia University. Professor of Educational Administration.
- NEYENDORFF, DORIS M., B. S., 1949, University of Illinois. Instructor in Physical Education.
- NORTON, HUGH S., A.B., 1947, M.A., 1948, George Washington University. Instructor in Economics.
- NYSTROM, PAUL E., B.S., 1929, University of California; M.S., 1951, University of Maryland; M.P.A., 1948, D.P.A., 1951, Harvard University. Director of Instruction, College of Agriculture; Professor and Head of Agricultural Economics and Marketing.
- OUTHOUSE, JAMES B., B.S., 1938, Cornell University; M.S., 1942, University of Maryland. Associate Professor of Animal Industry.
- PARSONS, ARTHUR C., A.B., 1926, M.A., 1928, University of Maryland. Assistant Professor of Foreign Languages.

- PATRICK, ARTHUR S., B.E., 1931, State Teachers' College, Wisconsin; M.A., 1940, George Washington University. Associate Professor of Office Management and Business Education.
- PATTON, DONALD J., B.S., 1942; M.A., 1947; Ph.D., 1949, Harvard University. Assistant Professor of Geography.
- PELCZAR, MICHAEL J., JR., B.S., 1936, M.S., 1938, University of Maryland; Ph.D., 1941, University of Iowa. Professor of Bacteriology.
- PERKINS, HUGH V., A.B., 1941, Oberlin College; M.A., 1946, Ph.D., 1949, University of Chicago. Associate Professor of Education, Institute for Child Study.
- PHILLIPS, NORMAN E., B.S., 1916, Allegheny College; Ph.D., 1931, Cornell University. Professor and Head, Department of Zoology.
- PICKARD, HUGH B., B.A., 1933, Haverford College; Ph.D., 1938, Northwestern University. Associate Professor of Physical Chemistry.
- PORTZ, JOHN, A.B., 1937, Duke University; M.A., 1940, Harvard University. Instructor in English.
- POU, JOHN W., B.S., 1938, North Carolina State College; M.S., 1947, University of Wisconsin; Ph.D., 1951, Cornell University. Professor and Head of Dairy.
- PRANGE, GORDON W., A.B., 1932, M.A., 1934, Ph.D., 1937, University of Iowa. Professor of History.
- PRATT, ERNEST F., B.A., 1937, University of Redlands; M.S., 1939, Oregon State College; M.A., 1941, Ph.D., 1942, University of Michigan. Associate Professor of Organic Chemistry.
- PRESCOTT, DANIEL A., B.S., 1920, Tufts College; Ed.M., 1922, Ed.D., 1923, Harvard University. Professor of Education and Head of the Institute for Child Study.
- REEVE, E. WILKINS, B.S., 1936, Drexel Institute; Ph.D., 1940, University of Wisconsin. Professor of Organic Chemistry.
- RANDALL, HARLAN, B.Mus., 1938, Washington College of Music. Professor of Music.
- RAPPLEYE, ROBERT D., B.S., 1941, M.S., 1947, Ph.D., 1949, University of Maryland. Assistant Professor of Botany.
- REID, JAMES H., B.S., 1923, University of Iowa; M.A., 1933, American University. Assistant Dean of College of Business and Public Administration, Professor of Marketing.
- ROBINSON, EDWARD A., B.A., 1944, St. Mary's Seminary and University; M.A., 1947, Catholic University. Instructor in Economics.
- ROBINSON, JOHN M., A.B., 1945, Middlebury College; Ph.D., 1949, Cornell University. Instructor in Philosophy.
- ROCKWELL, MARY, A.B., 1938, Hood College; M.A., 1951, New York University. Supervisor of High Schools, Howard County, Maryland. Visiting Lecturer in Education.

- ROMAINE, WESTERVELT B., B.A., Mus.Bac. 1937, Oberlin College; M.A., 1946, Ed.D., 1949, Teachers College, Columbia University. Assistant Professor of Music.
- ROTH, NORMAN R., B.A., 1942, Hobart College; M.A., 1949, University of Rochester; M.A., 1950, Ph.D., 1950, Columbia University. Instructor in Sociology.
- SCARBOROUGH, WINIFRED T., B.S., 1943, State Teachers College, Towson, Maryland; M.Ed., 1950, University of Maryland. Elementary Supervisor, Baltimore Public Schools, Baltimore, Maryland. Visiting Lecturer in Education.
- SCHINDLER, ALVIN W., A.B., 1927, Iowa State Teachers College; M.A., 1929, Ph.D., 1934, University of Iowa. Professor of Education.
- SHANKWEILER, PAUL, Ph.B., 1919, Muhlenberg College; M.A., 1921, Columbia University; Ph.D., 1934, University of North Carolina. Associate Professor of Sociology.
- SHEPHERD, JULIUS C., A.B., 1944, M.A., 1947, East Carolina Teachers College. Instructor in Mathematics.
- SHULMAN, CORRINE L., B.S., 1947, New York University. Instructor in Nursery School Education.
- SMITH, DENZEL D., A.B., 1936, York College; M.A., 1939, Ph.D., 1941, University of Nebraska. Professor of Psychology and Director of the University Counseling Center.
- SMITH, GERALD ALFRED, A.B., 1942, University of Notre Dame; M.A., 1947, University of Rochester. Instructor in English.
- SPARKS, DAVID S., B.A., 1944, Grinnell College; M.A., 1945, Ph.D., 1951, University of Chicago. Assistant Professor of History.
- SPENCER, G. L., B.A., 1943, Williams College; M.S., 1948, Massachusetts Institute of Technology. Instructor in Mathematics.
- SPENCER, MABEL S., B.S., 1925, M.S., 1946, West Virginia University. Assistant Professor of Home Economics Education.
- STANT, MARGARET A., Instructor in Nursery School Education.
- STARCHER, E. THOMAS, B.A., 1939, University of Southern California; M.A., 1948, University of Arkansas. Instructor in Speech.
- STARR, JOSEPH R., A.B., 1926, University of Nebraska; M.A., 1927, Ph.D., 1930, University of Minnesota. Professor of Government and Politics.
- STEINMEYER, REUBEN G., A.B., 1929, Ph.D., 1935, American University. Professor of Government and Politics.
- STEWART, CHARLES T., A.B., 1915, Erskine College; M.A., 1951, University of Maryland. Instructor in Education.
- STRATEMEYER, CLARA D., B.S., 1928, M.A., 1929, Ph.D., 1936, Teachers College, Columbia University. Elementary Supervisor, Montgomery County Schools, Maryland. Visiting Lecturer in Education.

- STRINGER, KENNETH T., B.S., 1946, M.S., 1948, University of Maryland. Instructor in Zoology.
- STROMBERG, ROLAND N., B.A., 1939, University of Kansas City; M.A., 1946, American University; Ph.D., 1952, University of Maryland. Assistant Professor of History.
- STUNTZ, CALVIN F., B.A., 1939, Ph.D., 1947, University of Buffalo. Associate Professor of Analytical Chemistry.
- SYLVESTER, HAROLD F., Ph.D., 1938, Johns Hopkins University. Professor of Personnel Administration.
- TAFF, CHARLES A., B.S., 1937, M.A., 1941, University of Iowa. Assistant Professor of Business Organization.
- THOMAS, BENJAMIN A., B.S., 1946, M.A., 1948, Northwestern University. Instructor of Office Techniques and Management.
- TIERNEY, WILLIAM F., B.S., 1941, Teachers College of Connecticut, New Britain; M.A., 1949, Ohio State University. Visiting Lecturer in Industrial Education.
- WAETJEN, WALTER B., B.S., 1942, State Teachers College, Millersville, Pennsylvania; M.S., 1947, University of Pennsylvania; Ed.D., 1951, University of Maryland. Assistant Professor of Education, Institute for Child Study.
- WATSON, J. DONALD, B.A., 1926, Reed College; M.B.A., 1931, University of Michigan; C.L.U., 1940, American College of Life; Ph.D., 1941, Northwestern University. Professor of Finance.
- WEDEBERG, SIVERT M., B.B.A., 1925, University of Washington; M.A., 1936, Yale University; C.P.A. Professor of Accounting.
- WELLBORN, FRED W., B.A., 1918, Baker University; M.A., 1923, University of Kansas; Ph.D., 1926, University of Wisconsin. Professor of History.
- WESSEL, JANET A., A.B., 1943, MacMurray College; M.S., 1944, Wellesley College; Ph.D., 1950, University of Southern California; Certificate, Physical Therapy, University of Southern California, 1948. Assistant Professor of Physical Education.
- WILBUR, JUNE C., B.S., 1936, B.S. in Education, 1937, University of Washington; M.S., 1940, Syracuse University. Assistant Professor of Textiles and Clothing.
- WOLFSOHN, N. Z., A.B., 1947, New York University. Assistant Professor of Mathematics.
- ZEEVELD, W. GORDON, A.B., 1924, Rochester University; M.A., 1929, Ph.D., 1936, Johns Hopkins University. Associate Professor of English.

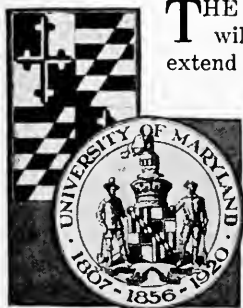
SUMMER SESSION, 1952
REGISTRATION SCHEDULE AND CALENDAR

Registration Time for New Graduate Students				
Date	Time	Students	Time	Students
Friday, June 20	9:00 A. M.	A—E	11:00 A. M.	L—R
	10:00 A. M.	F—K	1:00 P. M.	S—Z
Registration Time for Undergraduate Students and Returning Graduate Students				
Date	Time	Students	Time	Students
Monday, June 23	8:30 A. M.	A—C	1:00 P. M.	L—O
	9:30 A. M.	D—F	2:00 P. M.	P—S
	10:30 A. M.	G—K	3:00 P. M.	T—Z
<p>To expedite registration, students have been put into groups on the basis of the first letter of their last name. All students should register according to the above schedule. Deans are requested not to sign cards in advance of the scheduled time.</p> <p>June 24, Tuesday.....Classes begin</p> <p>June 28, Saturday.....Classes as usual, Monday Schedule.</p> <p>July 4, Friday.....Holiday.</p> <p>July 12, Saturday.....Classes as usual, Friday Schedule.</p> <p>August 1, Friday.....Close of Summer Session.</p>				

SUMMER SESSION

Wilbur Devilbiss, Ed.D., Director

Alma Frothingham, Secretary



THE 1952 Summer Session of the University of Maryland will open with registration on Monday, June 23, and extend for six weeks, ending Friday, August 1.

In order that there may be 30 class periods for each full course, classes will be held on Saturday, June 28 and July 12, to make up for time lost on registration day and July 4, which is a holiday.

TERMS OF ADMISSION

Teachers and special students not seeking degrees are admitted to the courses of the Summer Session for which they are qualified.

The admission requirements for those who desire to become candidates for degrees are the same as for other sessions of the University. Before

initial registration every student must be admitted to the University and pay a matriculation fee of \$10.00. Persons not previously admitted should see Mr. G. W. Algire, Director of Admissions, and also should consult the Dean of the College in which he seeks a degree.

Graduates of accredited normal schools with satisfactory normal school records may be admitted to advanced standing in the College of Education. The objectives of the individual student determine the exact amount of credit allowed. The student is given individual counsel as to the best procedure for fulfilling the requirements for a degree.

Candidates for admission to the Graduate School should file applications with the Dean of the Graduate School as long as possible in advance of registration and should have transcripts of their undergraduate records sent to the Dean of the Graduate School at the time of filing applications for admission.

ACADEMIC CREDIT

The semester hour is the unit of credit. During the Summer Session a course meeting five times a week for six weeks requiring the standard amount of outside work is given a weight of two semester hours.

Students who are matriculated as candidates for degrees will be given credit towards the appropriate degree for satisfactory completion of courses. All courses offered in the Summer Session are creditable towards the appropriate degree.

Teachers and other students will receive official reports specifying the amount and quality of work completed. These reports will be accepted by the Maryland State Department of Education and by the appropriate education authorities in other states for the extension and renewal of certificates in accordance with their laws and regulations.

NORMAL AND MAXIMUM LOADS

Six semester hours is the normal load for the Summer Session. Undergraduate students in the College of Education and teachers in service may take a maximum of eight semester hours if they have above-average grades. The maximum load for graduate students is six semester hours. Extra tuition is charged for loads over six semester hours. For details, see "Tuition and Fees."

REGISTRATION

Registration for undergraduate and graduate students will take place on Monday, June 23, from 8:30 A. M. to 3:00 P. M. New graduate students should register on Friday, June 20, and should report to the office of the Graduate Dean, 214 Education Building at the time listed in the Registration Schedule.

All students must obtain admission to the University from the Director of Admissions or the Dean of the Graduate School before registration.

Undergraduate students who are not candidates for degrees from the University of Maryland will register in the office of the Director of the

Summer School, Education Building. Regular undergraduate students will register in the offices of their respective deans. After registration forms have been completed and approved, bills will be issued and fees paid at the offices of the Registrar and Cashier in the Armory.

Instruction will begin on Tuesday, June 24, at 8:00 A. M. The late registration fee on Tuesday, June 24, will be \$5.00.

DEFINITION OF RESIDENCE AND NON-RESIDENCE

Students who are minors are considered to be resident students if at the time of their registration their parents have been domiciled in this State for at least one year.

The status of the residence of a student is determined at the time of his first registration in the University, and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of this State by maintaining such residence for at least one full year. However, the right of the minor student to change from a non-resident to resident status must be established by him prior to the registration period set for any semester.

Adult students are considered to be residents if at the time of their registration they have been domiciled in this State for at least one year provided such residence has not been acquired while attending any school or college in Maryland or elsewhere.

The word domicile as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

The following interpretations or modifications of the above rules shall apply:

(a) The domicile of the wife shall be that of her husband, except in the case of a minor supported by her parents in which event the marital status will not be considered in determining the residence status.

(b) Should the parents be separated, the domicile of the parent who furnishes the support shall determine the residence status of the child.

(c) Should the support for a minor not be furnished by the parents or guardians, the domicile of the person who furnishes the entire support shall determine the residence status of the child.

(d) Should the support for a student be derived from a trust fund established specifically for his support and education, the domicile of the person who established the fund during the full year previous thereto shall determine the residence status of the student.

(e) Should the parent or other person responsible for a student be required to leave this State for business or military reasons, he shall not be deprived of his right to claim residence status if it is evident that he intends to return to this State upon the completion of the special business or military assignment.

(f) The non-resident status of an adult may be changed upon proof that he has purchased and has maintained a home in Maryland for at least one full year; that he has become a registered voter of this State; and that he intends to make this State his domicile. These facts must be established prior to the registration period of the semester for which this change of status is requested.

TUITION AND FEES

Undergraduate Students

General Tuition Fee.....	\$50.00
This fee entitles the student to 6 semester hours of work, the general recreational program, and the use of a post office box.	
Non-residence Fee	15.00
Must be paid by all students who are not residents of Maryland.	
Matriculation Fee	\$10.00
Payable only once, upon admission to the University. Every student must be matriculated.	

Special Tuition Fees

For load of 4 semester hours or less, or for additional credits over 6 semester hours, per semester hour.....	10.00
Infirmary Fee	1.00
Recreation Fee	1.00
Required of all students registered in the Summer School; included in "General Fee" of students carrying 5 semester hours or more.	

Graduate Students

General Tuition Fee.....	50.00
This fee entitles the student to 6 semester hours of work, the general recreational program, and the use of a post office box.	
Matriculation Fee	10.00
Payable only once, upon admission to the Graduate School.	
Special Tuition Fee	
For load of 4 semester hours or less or for additional credits over 6 semester hours, per semester hour.....	10.00
Recreation Fee	1.00
Required of all students registered in the Summer School; included in "General Fee" of students carrying 5 or 6 semester hours.	

Medical attention is not provided for graduate students, consequently no Infirmary Fee is charged.

There is no non-residence fee for graduate students.

Miscellaneous Information

Auditors pay the same fees as regular students except that no charge is made to students who have paid the general fee.

The diploma fee is \$10.00 for bachelors' and masters' degrees, and \$35.00 for doctors' degrees.

A fee of \$3.00 is charged for each change in program after June 28th. If such change involves entrance to a course, it must be approved by the instructor in charge of the course entered. Courses cannot be dropped after July 12th.

A special laboratory fee may be charged for certain courses where such fee is noted in the course description.

All laboratory courses in chemistry carry a laboratory fee of \$10.00; in addition the student is charged for any apparatus which cannot be returned to the stock room in perfect condition. Other laboratory fees are stated in connection with individual courses.

Physical Education for Women, fee per semester, \$3.00. To be charged for any woman registered in any course or combination of courses in Physical Education involving the use of the Swimming Pool.

FEES FOR INSTITUTE OF COSMETOLOGY

Tuition fee for course..... \$50.00

FEES FOR NURSERY SCHOOL—KINDERGARTEN

Children 3 to 6 years..... \$15.00

LIVING ACCOMMODATIONS—MEALS

Dormitory accommodations are available as follows:

Regular Dormitories (WOMEN), \$35 per term (maid service).

Regular Dormitories (MEN), \$25 per term (no maid service).

Board, \$60 per term (Regular Dormitory occupants required to eat in University Dining Hall).

Temporary Dormitories (MEN), \$25 per term (no maid service).

(Temporary Dormitory occupants may take their meals off campus.)

THE UNIVERSITY DORMITORIES WILL NOT BE OPEN FOR OCCUPANCY UNTIL 12 O'CLOCK NOON, SUNDAY, JUNE 22.

Early application for reservations is advisable, as only those who have made reservations will be assured that rooms are ready for their occupancy. Rooms will not be held later than noon of Tuesday, June 24. For reservations write to Miss Marian Johnson, Assistant Dean of Women, or Mr. Robert C. James, Men's Dormitory Manager. *Do not send a deposit for room.*

Students attending the Summer School and occupying rooms in the dormitories will provide themselves with towels, pillows, pillow cases, sheets, blankets, bureau scarf, desk blotter, and waste basket. Trunks for the men's dormitories should be marked with student's name and address to "Men's Dormitories." Trunks for the women's dormitories should include name of dormitory and room number if it has been assigned in advance. Trunks sent by express should be prepaid. Cleanliness and neatness of rooms is the responsibility of the individual.

OFF-CAMPUS HOUSING

Off-campus rooms are available. Inquiries concerning them should be addressed to Mr. Doyle Royal, Office of Director of Student Welfare. He will furnish the names of those householders to whom students should write to make their own arrangements.

University Cafeteria meal service will be available to those summer school students who are commuting and those who live in off-campus houses.

The University assumes no responsibility for rooms and board offered to Summer Session patrons outside of the University dormitories and dining room. Eating establishments in the vicinity are inspected by the County Health Service.

CANCELLATION OF COURSES

Courses may be cancelled if the number of students enrolled is below certain minima. In general, freshman and sophomore courses will not be maintained for classes smaller than 20. Minimum enrollments for upper level undergraduate courses and graduate courses will be 15 and 10 respectively.

WITHDRAWAL AND REFUND OF FEES

Any student compelled to leave the University at any time must file an application for withdrawal, bearing the proper signatures, in the office of the Registrar. If this is not done, the student will not be entitled, as a matter of course, to a certificate of honorable dismissal, and will forfeit his right to any refund to which he would otherwise be entitled. The date used in computing refunds is the date the application for withdrawal is filed in the office of the Registrar.

In the case of a minor, withdrawal will be permitted only with the written consent of the student's parent or guardian.

Students withdrawing from the University will receive a refund of all charges, except board and lodging, less the matriculation fee in accordance with the following schedule:

<i>Period from Date Instruction Begins</i>	<i>Percentage Refundable</i>
One week or less.....	60%
Between one and two weeks.....	20%
Over two weeks.....	0

Board and lodging are refunded only in the event the student withdraws from the University. Refunds of board and lodging are made on a pro-rata, weekly basis. Dining Hall cards issued to boarding students must be surrendered at the Dining Hall office the day of withdrawal.

No refunds of fixed charges, tuition, laboratory fees, etc., are allowed when courses are dropped, unless the student withdraws from the University.

STUDENT HEALTH

The University Infirmary, located on the campus, in charge of the regular University physician and nurse, provides medical service of a routine nature for the undergraduate students in the Summer Session. Students who are ill should report promptly to the University Infirmary, either in person or by phone (Extension 326).

PARKING OF AUTOMOBILES

For the use of students, staff members, and employees, several parking lots are provided. The University rules forbid the parking of cars on any of the campus roads. These rules are enforced by State police.

SUMMER GRADUATE WORK

Masters' degrees are offered through the Graduate School as follows:

- Master of Arts
- Master of Sciences
- Master of Arts in American Civilization
- Master of Education
- Master of Business Administration
- Master of Foreign Study

Doctors' degrees offered through the Graduate School are as follows:

- Doctor of Philosophy
- Doctor of Education

Graduate work in the Summer School may be counted as residence toward a Master's degree or Doctor of Education degree. A full year of residence or the equivalent is the minimum requirement for each degree.

The requirements for each of the eight degrees above may be procured from the Graduate School upon request.

Special regulations governing graduate work in Education and supplementing the statements contained in the Graduate School Announcements are available in duplicated form and may be obtained from the College of Education. Each graduate student in Education should have a copy. Students seeking the Master's degree as a qualification for a certificate issued by the Maryland State Department of Education or any other certifying authority should consult the appropriate bulletin for specific requirements. Advisers will assist students in planning to meet such requirements.

All students desiring graduate credit, whether for meeting degree requirements, for transfer to another institution, or for any other purpose, must be regularly matriculated and registered in the Graduate School.

CANDIDATES FOR DEGREES

All students who expect to complete their requirements for degrees during the Summer Session should make application for diplomas at the office of the Registrar during the first two weeks of the Summer Session.

UNIVERSITY BOOKSTORE

For the convenience of students, the University maintains a students' supply store, located in the basement of the Administration Building, where students may obtain at reasonable prices textbooks, stationery, classroom materials and equipment, confectionery, etc.

Students are advised not to purchase any textbooks until they have been informed by their instructors of the exact texts to be used in the various courses, as texts vary from year to year.

The bookstore operates on a cash basis.

INSTITUTE FOR CHILD STUDY SUMMER WORKSHOP

The Institute for Child Study offers a summer workshop which will provide integrated experiences for persons in each of three areas of interest:

I. Persons who have been actively engaged in the Child Study Program sponsored by the Institute and for those persons who are interested in participating in such a program.

II. Persons in secondary schools desiring experience and training in a program involving a study of the developmental tasks of adolescents.

III. Persons who desire experience and training preparing them for leadership in 4H club programs.

The summer experiences will provide opportunities for increasing knowledge of scientific concepts that explain behavior and for applying this knowledge in working with children and adolescents.

For further information write to the Institute for Child Study, College of Education, University of Maryland, College Park.

NURSERY SCHOOL-KINDERGARTEN

A nursery school for children from 3 to 5 years of age and a kindergarten for those from 5 to 6 years operates during the forenoon in Building BB for the duration of the Summer Session. These schools are open to children of the community and to children whose parents are students or teachers in the Summer Session. The enrollment must be limited to the number that can be accommodated in the rooms available. Children will be accepted in the order of the filing of applications, which may be

obtained from Miss Edna B. McNaughton, College of Education, College Park, Maryland. Applications should be filed before May 15, 1952.

Children whose applications have been accepted should be brought to Building BB the morning of June 24. Tuition fees for each child are \$15.00 for the session.

THE PROGRAM IN AMERICAN CIVILIZATION

Work in American Civilization is required of freshmen and sophomores and is offered for election to juniors, seniors, and graduates. Freshmen and sophomores study literature, history, sociology, and political science (Eng. 1, 2, and 3, 4 or 5, 6; Hist. 5, 6; Soc. 1; G. & P. 1). Upper class students may elect a combined major-minor in American Civilization stressing literature, history, sociology, or government and politics. Graduate students may take masters' or doctors' degrees in American Civilization.

The principal objectives of American studies are broadly cultural rather than professional; but the work is an excellent preparation for many occupations such as teaching, writing, government service, and the law. For additional information, address an inquiry to the Chairman of the Committee on American Civilization.

OFFERINGS FOR ELEMENTARY TEACHERS

The 1952 summer session includes eighteen Education courses which are directly concerned with elementary school teaching, curriculum, and administration. Furthermore, other Education courses are also of value for elementary school teachers and administrators.

In addition to courses, the 1952 summer session offers opportunities in a variety of workshops. Education 127 is a full-time workshop which encourages concentration on everyday teaching problems. The Institute for Child Study Summer Workshop will be available again. Health 160 (see offerings in Health and Physical Education) emphasizes practical information which teachers may use in promoting health education. The Science Education Workshop (Science Education 105) stresses science information as well as teaching procedures. The workshop in Music for Elementary Schools (Mus. Ed. 128) is of value to teachers with meager background in music as well as for those with some basic music skills.

Two courses in library science are especially for teachers. They are concerned with book selection and the organization of school libraries.

Teachers who are interested in courses in the academic fields will find several in the offerings of the various departments of the University.

Most of the Education courses and workshops offer credit which may be applied toward an advanced degree or toward State Department requirements for elementary school certification.

CONFERENCES, INSTITUTES AND WORKSHOPS**The Parent-Teacher Association Summer Conference—July 15-17**

The College of Education will cooperate with the Maryland Congress of Parents and Teachers in planning their convention to be held this summer on the University campus. Persons of national reputation will be present as speakers and discussion leaders at the conference.

INDUSTRIAL EDUCATION CONFERENCE

An all-day Industrial Education Conference will be held on the College Park campus on Friday, July 11, 1952. Continuing with the theme initiated by the 1951 Conference, the day will be spent in the consideration of developing local leadership in industrial education.

The Conference will be of interest to teachers of industrial arts and vocational education and to supervisors, principals, and superintendents.

The first general session will convene at 9:30 A. M. in the auditorium of Symonds Hall. Sectional meetings and a luncheon at 12:45 in the Dining Hall will comprise the scheduled events.

No charge or registration fee is involved. Persons attending the luncheon will use the cafeteria lines and will pay only established prices.

INSTITUTE OF COSMETOLOGY

Cosmetology I—July 7-20. Tuition, \$50.00 for the course.

A two-week course, Monday through Friday, 8:00 A. M. to 5:00 P. M., with extra laboratory work if desired.

Subjects—Dermatology, Cosmetic Chemistry, Psychology, Art, Hairstyling Technique.

Prerequisite—A cosmetology license, with complete training in permanent waving.

Cosmetology II—July 21-August 1. Tuition, \$50.00 for the course.

A two-week course, Monday through Friday, 8:00 A. M. to 5:00 P. M. with extra laboratory work if desired.

Subjects—Cosmetic Chemistry, Bacteriology, Publicity and Public Relations, Art, Make-Up, Hairstyling Design.

Prerequisite, Completion of Cosmetology I.

Night Course—Hairstyling only. Monday, Tuesday, and Thursday, 7:00-10:00 P. M. Four weeks, July 7-August 1. Tuition, \$30.00 for the course.

Prerequisite—A cosmetology license, with training in permanent waving.

For additional information, write to Mrs. Louise M. Valench, Director of the Institute of Cosmetology, 411 North Charles Street, Baltimore 1, Maryland.

COURSE OFFERINGS AND DESCRIPTIONS

AGRICULTURAL ECONOMICS AND MARKETING

A. E. 109. Research Problems (1-2). To be arranged. (Staff.)

With the permission of the instructor, students will work on any research problems in agricultural economics. There will be occasional conferences for the purpose of making reports on progress of work.

A. E. 200. Special Problems in Farm Economics (2). To be arranged. (Staff.)

An advanced course dealing extensively with some of the economic problems affecting the farmer, such as land values, taxation, credit, prices, production adjustments, transportation, marketing and cooperation.

A. E. 203. Research. Credit according to work accomplished. (Staff.)

Students will be assigned research in agricultural economics under the supervision of the instructor. The work will consist of original investigation in problems of agricultural economics.

AGRICULTURAL EDUCATION AND RURAL LIFE

The three-week courses in Agricultural Education and Rural Life which follow are offered primarily for teachers of vocational agriculture, county agents and others interested in the professional and cultural development of rural communities. The normal load in such a program is three courses, which gives three units of credit. The courses of this department are offered in a cycle. By pursuing such a program successfully for four summers, a student will be able to earn 12 semester hours, a minimum major in this field, and could then return for two full summer sessions or one semester of regular school or for four more summers of three weeks each to complete the remaining 12 hours required for the Master's degree. These courses are arranged to articulate with the three-week courses in Agricultural Economics and Marketing, Agronomy, Animal Husbandry, Botany, Dairy Husbandry, Entomology, Horticulture and Poultry.

In 1952 the three-week period will start on June 30. They will meet during the 2nd, 3rd and 4th weeks of summer instead of the first 3 weeks, as in previous years. Registration is with regular summer school students on June 21 or June 23, or on June 30 before the student starts attending classes.

R. Ed. S208 A-B. Problems in Teaching Farm Mechanics (1-1). June 30 to July 18. Part A. 2:00, 3:00; I. (Gienger.)

This course deals with the latest developments in the teaching of Farm Mechanics. Various methods in use will be compared and studied under laboratory conditions.

R. Ed. S209 A-B. Adult Education in Agriculture (1-1). June 30 to July 18. Part A. 10:00; 0-138. (Ahalt.)

Principles of adult education as applied to rural groups, especially young and adult farmers. Organizing classes, planning courses and instructional methods are stressed.

R. Ed. S212 A-B. Educational Functions of Rural Institutions (1-1). June 30 to July 18. Part B. 1:00; 0-138. (Murray.)

The part rural institutions have played in starting, developing and supporting education for rural areas, with special emphasis on the various phases of agricultural education.

R. Ed. 215. Supervision of Student Teaching (1). Arranged (Ahalt.)

A workshop concerning the role of the critic teacher in checking progress, supervising and grading student teachers. Particular emphasis will be given to the region-wide program in training teachers of vocational agriculture, including the evaluation of beginning teachers.

R. Ed. S250 A-B. Seminar in Rural Education (1-1). June 30 to July 18. Part A. 11:00; 0-138. (Ahalt and Murray.)

Current problems of teaching agriculture are analyzed and discussed. Students are asked to make investigations, prepare papers and make reports.

R. Ed. 251. Research. (Staff.)

Credit according to work done.

Also see Agron. S210 and Dairy S201.

AGROMOMY

A. Crops

Agron. 208. Research Methods in Agronomy (2). (Staff.)

Development of research viewpoint by detailed study and report on crop research of the Maryland Experiment Station, review of literature, or original work by the student on specific phases of a problem.

Agron. 209. Crop Research (1-8). (Staff.)

Credit according to work accomplished. With approval or suggestion of the head of the department the student will choose his own problems for study.

Agron. S210. Cropping Systems (1). Three weeks—June 30-July 18. Daily 9:00 A. M. E-103. (Kuhn.)

An advance course primarily designed for teachers of vocational agriculture and country agents. It deals with outstanding problems and the latest developments in the field.

B. Soils

Agron. 118. Special Problems in Soils (1). Prerequisite, Agron. 10 and permission of instructor. (Staff.)

A detailed study including a written report of an important soils problem.

Agron. 256. Soil Research (1-8). (Staff.)

ANIMAL HUSBANDRY

A. H. 172. Special Problems in Animal Husbandry (1-2). Work assigned in proportion to amount of credit. Prerequisite, permission of instructor. (Outhouse.)

A course designed for advanced undergraduates in which specific problems relating to Animal Husbandry will be assigned.

A. H. 201. Special Problems in Animal Husbandry (1-2). Work assigned in proportion to amount of credit. Prerequisite, permission of instructor. (Kerr.)

Problems will be assigned which relate specifically to the character of work the student is pursuing.

A. H. 204. Research (1-6). Credit to be determined by amount and character or work done. (Green.)

With the approval of the head of the department, students will be required to pursue original research in some phase of Animal Husbandry, carrying the same to completion, and report the results in the form of a thesis.

BACTERIOLOGY

Bact. 1. General Bacteriology (4). Five lectures and five two-hour laboratory periods a week. Lecture, 8:00; T-211; laboratory, 9:00, 10:00; T-311. Laboratory fee, \$10.00. (Pelczar.)

The physiology, culture, and differentiation of bacteria. Fundamental principles of microbiology in relation to man and his environment.

Bac. 5. Advanced General Bacteriology (4). Five lectures and five two-hour laboratory periods a week. Lecture, 9:00; T-307; laboratory, 10:00, 11:00; T-307. Prerequisite, Bact. 1 and Chem. 3. Laboratory fee, \$10.00. (Doetsch.)

Emphasis will be given to the fundamental procedures and techniques used in the field of bacteriology. Lectures will consist of the explanation of various laboratory procedures.

Bact. 181. Bacteriological Problems (3). Eight two-hour laboratory periods a week. To be arranged. Prerequisite, 16 credits in bacteriology. Registration only upon consent of the instructor. Laboratory fee, \$10.00. (Faber.)

This course is arranged to provide qualified majors in bacteriology and majors in allied fields an opportunity to pursue specific bacteriological problems under the supervision of a member of the department.

Bact. 291. Research. Prerequisite, 30 credits in bacteriology. Laboratory fee, \$10.00. (Staff.)

Credits according to work done. The investigation is outlined in consultation with and pursued under the supervision of a senior staff member of the department.

BOTANY

Bot. 1. General Botany (4). Five lectures and five two-hour laboratory periods per week. Lecture, 8:00, E-115; laboratory, 1:00, 2:00, E-235. Laboratory fee, \$5.00. (Brown, Staff.)

General introduction to botany; touching briefly on all phases of the subject. Emphasis is on the fundamental biological principles of the higher plants.

Bot. 206. Research, Physiology (Credit according to work done.)
(Gauch and Dugger.)

Bot. 214. Research, Morphology. (Credit according to work done.)
(Morgan and Rappleye.)

Bot. 225. Research, Pathology. (Credit according to work done.)
(Jeffers and Cox.)

BUSINESS AND PUBLIC ADMINISTRATION

B. A. 10. Organization and Control (2). 11:00; Q-147. Prerequisites, none. (Clemens.)

A survey course treating the internal and functional organization of a business enterprise.

B. A. 20. Principles of Accounting (4). Daily 8:00, 9:00; Q-28. Prerequisite, sophomore standing. (Wedeborg.)

B. A. 21. Principles of Accounting (4). Daily 8:00, 9:00; Q-29. Prerequisite, B. A. 20.

The fundamental principles and problems involved in accounting for proprietorships, corporations and partnerships.

B. A. 111. Intermediate Accounting (3). Daily 8:00; MWF 9:00; Q-29A. Prerequisite, B. A. 21.

A comprehensive study of the theory and problems of valuation of assets, application of funds, corporation accounts and statements, and the interpretation of accounting statements.

B. A. 130. Elements of Business Statistics (3). Daily 8:00; MWF 9:00; Q-243. Prerequisite, junior standing. Required for graduation. Laboratory fee, 3.50. (Ash.)

This course is devoted to a study of the fundamentals of statistics. Emphasis is placed upon the collection of data; hand and machine tabulation; graphic charting; statistical distribution; averages; index numbers; sampling; elementary tests of reliability; and simple correlations.

B. A. 140. Financial Management (3). Daily 1:00; MWF 2:00; Q-146. Prerequisite, Economics 140. (Calhoun.)

This course deals with principles and practices involved in the organization, financing, and reconstruction of corporations; the various types of securities, and their use in raising funds, apportioning income, risk and

control; intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.

B. A. 150. Marketing Management (3). Daily 8:00; MWF 9:00; Q-148. Prerequisite, Economics 150. (Reid.)

A study of the work of the marketing division in a going organization. The work of developing organizations and procedures for the control of marketing activities are surveyed. The emphasis throughout the course is placed on the determination of policies, methods, and practices for the effective marketing of various forms of manufactured products.

B. A. 160. Personal Management (3). Daily 10:00; MWF 11:00 Q-148. Prerequisite, Economics 160. (Sylvester.)

This course deals essentially with functional and administrative relationships between management and the labor force. It comprises a survey of the scientific selection of employes, "in-service" training, job analysis, classification and rating, motivation of employes, employe adjustment, wage incentives, employe discipline and techniques of supervision, and elimination of employment hazards.

B. A. 165. Office Management (3). Daily 8:00; MWF 9:00; Q-31. Prerequisite, B. A. 11 or junior standing. (Patrick.)

Considers the application of the principles of scientific management in their application to office work.

B. A. 166. Business Communications (3). Daily 10:00; MWF 11:00; Q-30. Prerequisite, junior standing. (Thomas.)

The systems of communications used in modern business; techniques of communication forms, administrative memorandums, order, bulletin, digest, reports, communication problems in production, marketing, personnel administration, and public relations.

B. A. 169. Industrial Management (3). Daily 10:00; MWF, 11:00; Q-31. Prerequisite, B. A. 11 and B. A. 160. (McLarney.)

Studies the operation of a manufacturing enterprise. Among the topics covered are product development, plant location, plant layout, production planning and control, methods analysis, time study, job analysis, budgetary control, standard costs, and problems of supervision. An inspection trip to a large manufacturing plant is made at the latter part of the semester.

B. A. 170. Transportation I (3). Daily 8:00; MWF, 9:00; Q-28A. Prerequisite, Econ. 32 or 37. (Taff.)

This course is designed for students of Transportation, Public Administration, and General Business. It covers the world practices in the regulation and control of transportation facilities.

B. A. 181. Business Law (4). Daily 10:00, 11:00; Q-30. Prerequisite, senior standing. Required in all Business Administration curriculums. (Mounce.)

Legal aspects of business relationships, contracts, negotiable instruments, agency, partnerships, corporations, real and personal property and sales.

B. A. 262. Seminar in Contemporary Trends in Labor Relations—Arranged (for graduates). (Sylvester.)

Econ. 5. Economic Developments (2). Daily 10:00; Q-147. Prerequisite, none. (Robinson.)

An introduction to modern economic institutions—their origins, development, and present status. Commercial revolution, industrial revolution, and age of mass production. Emphasis on developments in England, Western Europe and the United States.

Econ. 31. Principles of Economics (3). Daily 8:00; MWF 9:00; Q-147. Prerequisite, sophomore standing. (Gruchy.)

A general analysis of the functioning of the economic system. A considerable portion of the course is devoted to a study of basic concepts and explanatory principles. The remainder deals with the major problems of the economic system.

Econ. 32. Principles of Economics (3). Daily 12:00; MWF 1:00; Q-30. Prerequisite, Econ. 31. (Robinson.)

Econ. 140. Money & Banking (3). Daily 8:00; MWF 9:00; Q-146. Prerequisite, Econ. 32 or 37. (Watson.)

A study of the organization, functions, and operation of our monetary, credit, and banking system; the relation of commercial banking to the Federal Reserve System; the relation of money and credit to prices; domestic and foreign exchange and the impact of public policy upon banking and credit.

Econ. 150. Marketing Principles and Organization (3). Daily 10:00; MWF 11:00; Q-146. Prerequisite, Econ. 32 or 37. (Cook.)

This is an introductory course in the field of marketing. Its purpose is to give a general understanding and appreciation of the forces operating, institutions employed, and methods followed in marketing agricultural products, natural products, services, and manufactured goods.

Econ. 160. Labor Economics (3). Daily 12:00; MWF 1:00; Q-31. Prerequisite, Econ. 32 or 37. (Norton.)

The historical development and chief characteristics of the American Labor movement are first surveyed. Present day problems are then examined in detail; wage theories, unemployment, social security; labor organization, collective bargaining.:

Econ. 171. Economics of American Industry (3). Daily 8:00; MWF 9:00; A-21. Prerequisites, Econ. 32 or 37. (Clemens.)

A study of the technology, economics and geography of twenty representative American industries.

Geog. 40. Principles of Meteorology (3). Daily 11:00; MWF 12; N-101.
(Patton)

An introductory study of the weather. Properties and conditions of the atmosphere, and methods of measurement. The atmospheric circulation and conditions responsible for various types of weather and their geographic distribution patterns. Practical applications.

Geog. 100. Regional Geography of the United States and Canada (3). Daily 8:00; MWF 9:00; N-101. Prerequisite, Geog. 1, 2 or Geog. 60, 61 or permission of instructor.
(Anderson.)

The climate, land forms, soils and minerals, forests, agriculture, industries, and commerce; the people and their occupations, by regions.

Geog. 120. Economic Geography of Europe (3). Daily 10:00; MWF 1:00; N-101.
(Patton)

The natural resources of Europe in relation to agricultural and industrial development and to present-day economic and national problems.

Journ. 10. News Reporting I (3). Daily 10:00, 11:00; GG-1. Prerequisites, Eng. 1, 2.
(Krimel.)

Fundamentals of professional reporting. Laboratory time spent in writing news-story exercises assigned by instructor. Laboratory fee, \$3.00.

CHEMISTRY

All laboratory courses in chemistry carry a laboratory fee of \$10.00; in addition the student is charged for any apparatus which cannot be returned to the stock room in perfect condition.

Chem. 3. General Chemistry (4). Five lectures and five three-hour laboratory periods per week. Prerequisite, Chem. 1 Lecture, 11:00; C-215; laboratory, 1, 2, 3; C-109.
(Dewey.)

Chem. 19. Quantitative Analysis (4). Five lectures and five three-hour laboratory periods per week. Prerequisite, Chem. 1 and 3. Lecture, 9:00; C-215; laboratory, 10, 11, 12; C-306.
(Stuntz.)

Chem. 37. Elementary Organic Chemistry (2). Second semester. Five lectures per week. Prerequisite, Chem. 35. 8:00; C-221.
(Reeve.)

Chem. 38. Elementary Organic Laboratory (2). Second semester. Five three-hour laboratory periods per week. 9, 10, 11; C-221.
(Reeve.)

Chem. 142, 144. Advanced Organic Laboratory (2, 2). Five three-hour laboratory periods per week. Prerequisites, Chem. 19 or 23 and Chem. 37 and 38. Laboratory periods arranged. C-206.
(Pratt.)

Chem. 146, 148. Identification of Organic Compounds (2, 2). Five three-hour laboratory periods per week. Prerequisites, Chem. 141 and 142. Laboratory periods arranged. C-208.
(Pratt.)

Chem. 254. Advanced Organic Preparations (2 to 4). Five or ten three-hour laboratory periods per week. Laboratory periods arranged. C-206.
(Pratt.)

Chem. 258. The Identification of Organic Compounds, an advanced course (2 or 4). Five or ten three-hour laboratory periods per week. Laboratory periods arranged. C-208. Two recitations per week. Arranged. (Pratt.)

Chem. 295. Heterogeneous Equilibria (2). Five lectures per week. 9:00; 0-240. (Pickard.)

Chem. 360. Research. (Staff.)

DAIRY

Dairy 124. Special Problems in Dairying (2-4). Arranged. Prerequisites, students majoring in dairy husbandry, Dairy 1 and 101; students majoring in dairy products technology, Dairy 1, 108 and 109. Credit in accordance with the amount and quality of work done. (Staff.)

Special problems will be assigned which relate specifically to the work the student is pursuing.

Dairy S201. Advanced Dairy Production (1). 8:00; D-308, June 30-July 18. (Pou and Ellmore.)

An advanced course primarily designed for teachers of vocational agriculture and county agents. It includes a study of the newer discoveries in dairy cattle nutrition, breeding and management.

Dairy 204. Special Problems in Dairying (1-5). Arranged. Prerequisite, permission of professor in charge of work. Credit in accordance with the amount and quality of work done. (Staff.)

Methods of conducting dairy research and the presentation of results are stressed. A research problem which relates specifically to the work the student is pursuing will be assigned.

Dairy 208. Research (3-8). Arranged. Credit to be determined by the amount and quality of work done. (Staff.)

Original investigation by the student of some subject assigned by the major professor, the completion of the assignment and the preparation of a thesis in accordance with requirements for an advanced degree.

EDUCATION

Ed. 52. Children's Literature (2). 8:00; T-218.. (Bryan.)
A study of literary values in prose and verse for children.

Ed. 90. Development and Learning (3). Daily, 9:00; MWF, 10:00; T-12. (Stewart.)

A study of the principles of learning and their application to school situations. Designed to meet the usual teacher-certification requirement for educational psychology.

Ed. 101. History of Education II (2). 11:00; T-12. (Stewart.)
Emphasis is placed on the post-Renaissance periods.

Ed. 122. Social Studies in the Elementary School (2). 11:00; T-103.

(L. Denecke.)

The emphasis in this course is on pupil growth through social experiences. Consideration is given to the utilization of environmental resources, curriculum, organization and methods of teaching, and evaluation of newer methods and materials in the field.

Ed. 123. The Child and the Curriculum (2). 9:00; T-102. (M. Denecke.)

This course will emphasize the relation of the elementary school curriculum to child growth and development. Recent trends in curriculum organization; the effect of school environment on learning; readiness to learn; and adaptation of curriculum content and methods to the maturity levels of children will be emphasized.

Ed. 125. Creative Expression in the Elementary School (2).

This course allows for specialization in selected phases of creative arts. Section 1 is a laboratory course in creative art. Section 2 is concerned with choral speaking, dramatization, and other creative activities in language arts.

Section 1—Art, M., W., 1:00-3:00; T-18.

(Booton.)

Section 2—The Language Arts—12:00; T-103.

(L. Denecke.)

Ed. 127. Teaching in the Elementary Schools (6). A Workshop. 9:00 to 12:00 and arranged; T-17.

(Scarborough.)

This workshop encourages concentrated work on everyday teaching problems. Each participant will take responsibility for the development of practical plans or useful materials in relation to problems which are of particular interest to him. Some group meetings will deal with classroom organization, curriculum development, specific teaching procedures, selection and use of instructional materials, and other areas selected by the group.

Applications for participation must be mailed to the Director of the Summer Session before June 1, 1952. Enrollment will be limited.

***Ed. 130. Theory of the Junior High School (2).** 8:00; A-14. (Baker.)

This course gives a general overview of the junior high school. It includes consideration of the purposes, functions, and characteristics of this school unit; a study of its population, organization, program of studies, methods, staff, and other similar topics, together with their implications for prospective teachers.

***Ed. 131. Theory of the Senior High School (2).** 8:00; A-14 (Baker.)

The secondary school population; the school as an instrument of society; relation of the secondary school to other schools; aims of secondary education; curriculum and methods; extra-curricular activities; guidance and placement; teacher certification and employment in Maryland and the District of Columbia.

* Credit is accepted for Ed. 130 or Ed. 131, but not for both courses.

Ed. 142. High School Course of Study-Literature (2). 11:00; T-218.
(Bryan.)

Literature adapted to the various grade levels of junior and senior high schools is studied.

Ed. 144. Materials and Procedure for the Junior High School Core Curriculum (2). 12:00; T-211.
(Rockwell.)

This course is designed to bring practical suggestions to teachers who are in charge of core classes in junior high schools. Materials and teaching procedures for specific units of work are stressed.

Ed. 145. Principles of High School Teaching (3). .Daily 11:00; M., T., W., 12:00; T-119.
(Brechtbill.)

This course is concerned with the principles and methods of teaching but includes no student teaching.

Ed. 147. Audio-Visual Education (2). Fee, \$1.00. 8:00; T-108. (Maley.)

Sensory impressions in their relation to learning; projection apparatus, its cost and operation; slides, film-strips, and films; physical principles underlying projection; auditory aids to instruction; field trips; pictures, models, and graphic materials; integration of sensory aids with organized instruction.

Ed. 150. Educational Measurement (2). 9:00; R-1. (Carl.)

A study of tests and examinations with emphasis upon their construction and use. Types of tests; purposes of testing; elementary statistical concepts, and processes used in summarizing and analyzing test results; school marks.

Ed. 153. The Improvement of Reading (2). (Schindler.)

Section 1—8:00; T-103.

Section 2—Arranged.

This course is intended for teachers working at the intermediate and secondary school levels. Attention is given to the teaching of reading in different school subjects, the selection of reading materials, the study of individuals with reference to causes of reading deficiencies, types of reading lessons, and certain elements of psychology essential to intelligent consideration of problems in this field.

Ed. 161. Principles of Guidance (2). 11:00; T-219. (Byrne.)

A survey course of guidance principles and techniques, and the administration of a program of guidance services. The basic course for counseling majors. A course of value for teachers at any level so they will understand their part in their schools' guidance activities.

Ed. 162. Mental Hygiene in the Classroom (2). (M. Denecke.)

Section 1—10:00; T-102.

Section 2—11:00; T-102.

The practical application of the principles of mental hygiene to classroom problems.

Ed. 170. Introduction to Special Education (2). 9:00; A-14. (Baker.)

This course is designed to give teachers, principals, attendance workers, and supervisors an understanding of the needs of all types of exceptional children. Preventive and remedial measures are stressed.

Ed. 188. Special Problems in Education (1-3). Prerequisite, consent of instructor. Arranged. (Staff.)

Available to mature students only.

Ed. 207. Seminar in Philosophy of Education (2). 9:00; T-219.

Ed. 209. Seminar in History of Education (2). 9:00; T-219.

Ed. 210. The Organization and Administration of Public Education (2). (Newell.)

Section 1—9:00; T-119.

Section 2—10:00; T-119.

This course deals with so-called "external" phases of school administration. It includes study of the present status of public school administration, organization of local, state, and federal educational authorities; and the administrative relationships involved therein.

Ed. 211. The Organization, Administration, and Supervision of Secondary Schools (2). 9:00; T-211. (Rockwell.)

This course is designed as a continuation of Ed. 210, but may be taken independently. It includes what is called "internal" administration; the organization of units within a school system; the personnel problems involved; and such topics as schedule making, teacher selection, public relations, and school supervision.

Ed. 212. School Finance and Business Administration (2). 10:00; A-14. (Jenkins.)

An introduction to the finance phase of public school administration. The course deals with the basic principles of school finance; the implications of organization and control; the planning, execution, and appraisal of the activities involved in public school finance such as budgeting, taxing, purchasing, service of supplies, and accounting.

Ed. 216. High School Supervision (2). 10:00; T-211. Fee, \$1.00. (Rockwell.)

This course deals with recent trends in supervision; the nature and function of supervision; planning supervisory programs; evaluation and rating; participation of teachers and other groups in policy development; school workshops, and other means for the improvement of instruction.

Ed. 217. Administration and Supervision in Elementary Schools (2). 10:00; T-218. (Blacklock.)

A study of the problems connected with organizing and operating elementary schools and directing instruction.

Ed. 219. Seminar in School Administration (2). 12:00; T-102. (Newell.)

Ed. 222. Seminar in Supervision (2). Prerequisite, Ed. 216. Prerequisite may be waived upon approval of the instructor. 9:00; T-103.
(Devilbiss.)

Ed. 227. Public School Personnel Administration (2). 11:00; A-14.
(Jenkins.)

An examination of practices with respect to personnel administration. This course serves to aid in the development of principles applying to personnel administration. Personnel needs, the means for satisfying personnel needs, personnel relationships, tenure, salary schedules, leaves of absence, and retirement plans are reviewed. Local and state aspects of the personnel problem are identified.

Ed. 229. Seminar in Elementary Education (2). 9:00; T-20. (Schindler.)

Attention will be centered on selected problems in curriculum making, teaching, and child development. Members of the class may concentrate on seminar papers, prepare materials for their schools, or read extensively to discover viewpoints and research data on problems and experimental practices.

Ed. 235. Curriculum Development in Elementary Schools (2). 10:00; A-16.
(Stratemeyer.)

This course is concerned with problems ordinarily encountered in curriculum evaluation and revision. Attention is given to sociological and philosophical factors which influence the curriculum, principles for the selection and organization of content and learning activities, patterns of the curriculum organization, construction and use of courses of study, the utilization of personnel for curriculum development, and controversial curriculum issues.

Ed. 236. Curriculum Development in the Secondary School (2). 10:00; E-115.
(Hornbake.)

Curriculum planning; philosophical bases, objectives, learning experiences, organization of appropriate content, and means of evaluation.

Ed. 239. Seminar in Secondary Education (2). 9:00; T-218. (Bryan.)

Ed. 243. Application of Theory and Research to Arithmetic in Elementary Schools (2). 11:00; T-211.
(Blacklock.)

Implications of experimental practices, the proposals of eminent writers, and the results of research for the teaching of arithmetic in elementary schools.

Ed. 244. Application of Theory and Research to Language Arts in Elementary Schools (2). 8:00; A-16.
(Stratemeyer.)

Implications of experimental practices, the proposals of eminent writers, and the results of research for the language arts in the elementary schools.

Ed. 246. Application of Theory and Research to the Social Studies in Elementary Schools (2). 11:00; A-16. (Stratemeyer.)

The results of research, viewpoints on what the content and organization of the social studies program should be, and important curriculum trends are analyzed critically for their implications.

Ed. 248. Seminar in Industrial Arts and Vocational Education (2). (See Ind. Ed. 248.) (Brown.)

Ed. 250. Analysis of the Individual (2). 12:00; R-1. (Carl.)

To provide guidance workers and teachers with proficiencies in identifying aptitudes, interests, temperaments, and other essential characteristics of each individual through various techniques. Records pertinent to individual analysis and their interpretation will be studied. Ed. 161 is desirable as a prior course. Required of counseling majors.

Ed. 253. Guidance Information (2). 11:00; R-1. (Carl.)

To provide guidance workers and others interested with proficiencies for finding and presenting to pupils information pupils need in making choices, plans, and interpretations in major problem areas, such as social, occupational, and educational problems. Required of counseling majors. Ed. 161 is desirable as a prior course.

Ed. 260. Principles of School Counseling (2). Prerequisites, Ed. 161, 250, 253, for majors. Prerequisites may be waived by instructor. 8:00; T-219. (Byrne.)

A basic course for counselors in public schools in the theories of counseling and study of techniques. Emphasis is on study of techniques used with preadolescents and adolescents.

Ed. 269. Seminar in Guidance (2). Registration only by approval of instructor. 10:00; T-219. (Byrne.)

For majors in guidance who are about to complete certification or degree requirements. Reports and discussions on advanced reading and studies in the field of guidance.

Ed. 288. Research Problems in Education (1-6). Arranged. (Staff.)

Master of Education or Doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for one to six hours of credit under this number. A Master of Education candidate may register for two or more hours under this number and write one of his seminar papers.

Ed. 289. Research-Thesis (1-6). (Staff.)

Students who desire credit for a Master's thesis, a Doctoral dissertation, or a Doctoral project should use this number.

BUSINESS EDUCATION

B. Ed. 101. Methods and Materials in Teaching Office Skills (2). 9:00; Q-246. (Thomas.)

Problems in development of occupational competency, achievement tests, standards of achievement, instructional materials, transcription, and the integration of office skills.

B. Ed. 255. Principles and Problems of Business Education (2). 10:00; Q-246. (Patrick.)

Principles and practices in business education; growth and present status; vocational business education; general business education; relation to consumer education and to education in general.

CHILDHOOD EDUCATION

C. Ed. 115. Children's Activities and Activities Materials (3). Daily, 9:00, 10:00, 11:00; BB. (Shulman.)

For nursery school and kindergarten majors.

C. Ed. 149. Teaching Nursery School (3-4). Daily, 9:00, 10:00, 11:00. Conference hours arranged. (Shulman.)

Teaching experience in the University Nursery School and in those of nearby communities.

Note: Advanced registration is advised for those wishing to do student teaching.

C. Ed. 150. Curriculum, Instruction, and Observation — Kindergarten (3). Five lectures a week, daily, 8:00; BB-8. Three hours observation in the University Kindergarten each week, 9:00 to 12. (Stant.)

A study of the many activities of the kindergarten program with emphasis on maturity levels and various aspects of child development.

C. Ed. 159. Teaching Kindergarten (3). Daily, 9:00, 10:00, 11:00. Conference hours arranged. (Stant.)

Student teaching in the University Kindergarten. Advanced registration required by May 15th.

HOME ECONOMICS EDUCATION

H. E. Ed. 102. Problems in Teaching Home Economics (3). Daily, 9:00; H-135; other meetings arranged. Required of seniors in Home Economics Education. Prerequisite, consent of instructor. (Spencer.)

A study of the managerial aspects of teaching and administering a home-making program; the physical environment, organization, and sequence of instructional units, resource materials, evaluation, home projects.

NOTE. This course is also open to elementary teachers who, in their instructional and administrative responsibilities, are concerned with health and nutrition. Special emphasis on methods and instructional materials.

H. E. Ed. 120. Evaluation of Home Economics (2). 10:00; H-135. Prerequisite, consent of instructor. (Spencer.)

The meaning and function of evaluation in education; the development of a plan for evaluating a homemaking program with emphasis upon types of evaluation devices, their construction, and use.

*H. E. Ed. 200. Seminar in Home Economics Education (2). 11:00; H-135. (Spencer.)

*H. E. Ed. 202. Trends in the Teaching and Supervision of Home Economics (2-4). Daily, 11:00; H-135; other meetings arranged. (Spencer.)

A study of home economics programs and practices in light of current educational trends. Interpretation and analysis of democratic teaching procedures. Outcomes of instruction, and supervisory practices.

HUMAN DEVELOPMENT EDUCATION

H. D. Ed. 112, 114, 116. Scientific Concepts in Human Development I, II, III (3, 3, 3).

H. D. Ed. 113, 115, 117. Laboratory in Behavior Analysis I, II, III (3, 3, 3).

Summer workshop courses for undergraduates. In any one summer, concept and laboratory courses must be taken concurrently.

H. D. Ed. 200S. Introduction to Human Development and Child Study (2). 8:00; T-119.

This course offers a general overview of the scientific principles which describe human development and behavior and makes use of these principles in the study of individual children. When this course is offered during the academic year, each student will observe and record the behavior of an individual child through the semester and must have one half-day a week free for this purpose. The course is basic to further work in child study and serves as a prerequisite for advanced courses where the student has not had field work or at least six weeks of workshop experience in child study. When this course is offered during the summer it will be H. D. Ed. 200S and intensive laboratory work with case records may be substituted for the study of an individual child.

H. D. Ed. 212, 214, 216. Advanced Scientific Concepts in Human Development, I, II, III (3, 3, 3).

H. D. Ed. 213, 215, 217. Advanced Laboratory in Behavior Analysis I, II, III (3, 3, 3).

Summer workshop courses for graduates providing credit for as many as three workshops. In any one summer, concept and laboratory courses must be taken concurrently.

* Only one of these courses will be offered, depending on enrollment.

H. D. Ed. 218. Workshop in Human Development (6). Prerequisites, H. D. Ed. 212, 213, 214, 215, 216, 217.

Summer workshop in human development for graduate students who have had three workshops and wish additional workshop experience. This course can be taken any number of times, but cannot be used as credit toward a degree.

H. D. Ed. 270. Seminars in Special Topics in Human Development (2-6).
Arranged. (Staff.)

An opportunity for advanced students to focus in depth on topics of special interest growing out of their basic courses in human development. Prerequisites, consent of instructor.

INDUSTRIAL EDUCATION

A. Technical Courses

The following courses are offered to persons who are preparing to teach industrial arts at the secondary school level or to teachers already engaged in industrial arts teaching. The courses are identical in content and presentation to those offered during the regular school term.

Ind. Ed. 1. Mechanical Drawing (2). 10:00, 11:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Tierney.)

This course constitutes an introduction to orthographic multi-view and isometric projection. Emphasis is placed upon the visualization of an object when it is represented by a multi-view drawing and upon the making of multi-view drawings.

This course carries through auxiliary views, sectional views, dimensioning, conventional representation and single stroke letters.

In. Ed. 2. Elementary Woodworking (2). 8:00, 9:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Tierney.)

This is a woodworking course which involves primarily the use of hand tools. The course is developed so that the student uses practically every common woodworking hand tool in one or more situations. There is also included elementary wood finishing, the specifying and storing of lumber, and the care and conditioning of tools used.

Ind. Ed. 21. Mechanical Drawing (2). 10:00, 11:00; Ind. Ed. Bldg. Prerequisite, Ind. Ed. 1. Laboratory fee, \$5.00. (Tierney.)

A course dealing with working drawings, machine design, pattern layouts, tracing and reproduction. Detail drawings followed by assemblies are presented.

Ind. Ed. 22. Machine Woodworking I (2). 8:00, 9:00; Ind. Ed. Bldg. Prerequisite, Ind. Ed. 1. Laboratory fee, \$5.00. (Tierney.)

Machine Woodworking I offers initial instruction in the proper operation of the jointer, band saw, variety saw, jig saw, mortiser, shaper, and lathe. The types of jobs which may be performed on each machine and their safe operation are of primary concern. The medium of instruction consists of shop equipment, hobby items, and useful home projects.

Ind. Ed. 24. Sheet Metal Work (2). 1:00, 2:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

Articles are made from metal in its sheet form and involve the operations of cutting, shaping, soldering, riveting, wiring, folding, seaming, beading, burring, etc. The student is required to develop his own patterns inclusive of parallel line development, radial line development, and triangulation. Common sheet metal tools and machines are used in this course.

Ind. Ed. 26. Art Metal Work I (2). 1:00, 2:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

An introductory course in designing and constructing are products in aluminum, copper and brass. The processes covered include surface decoration (hammering, piercing, etching, enameling), heat treatment and finishing.

Ind. Ed. 67. Cold Metal Work (2). 1:00, 2:00; Ind. Ed. Bldg. Laboratory fee, \$5.00. (Maley.)

Metal in the form of bars, rods and tubes are shaped to produce "ornamental iron" and bench metal products. The use of the hacksaw, file, drill press, taps and dies, the designing and forming of scrolls and the finishes appropriate for cold metal work are representative of the course content.

Ind. Ed. 102. Advanced Woodfinishing and Upholstery (2). 8:00, 9:00; Ind. Ed. Bldg. Prerequisite, Ind. Ed. 22, or equivalent. Laboratory fee, \$5.00 (Tierney.)

This course offers instruction in woodfinishing, techniques applicable to furniture restoration and in the processes of upholstering household furniture.

Ind. Ed. 160. Essentials of Design (2). 10:00, 11:00; Ind. Ed. Bldg. Prerequisites, Ind. Ed. 1 and basic shop work. Laboratory fee, \$5.00. (Tierney.)

A study of the basic principles of design and practice in their application to the construction of shop projects. It treats the art elements of line, mass, color, and design.

B. Professional Courses

The following courses are intended for industrial arts teachers and supervisors, for vocational-industrial teachers and supervisors, and for school administrators and others who desire to acquaint themselves with underlying principles, practices, and educational contributions of industrial arts and vocational education.

Ind. Ed. 167. Problems in Occupational Education (2). 11:00; T-20.
(Brown.)

This course identifies problems in industrial education and considers workable approaches to their solutions. Particular attention is given to part-time cooperative programs, such as the diversified occupation type of work experience programs in the secondary schools of Maryland.

Ind. Ed. 207. Philosophy of Industrial Arts Education (2). 9:00; E-115.
(Hornbake.)

This course is intended to assist the student in his development of a point of view as regards industrial arts and its relationship with the total educational program. He should, thereby, have a "yardstick" for appraising current procedures and proposals and an articulateness for his own professional area.

Ind. Ed. 240. Research in Industrial Arts and Vocational Education (2).
Arranged. (Brown, Hornbake, Maley.)

This is a course offered by arrangement for persons who are conducting research in the areas of industrial arts and vocational education.

(During this summer session Dr. Maley will concentrate on the development of school shop experiments pertinent to industrial arts teaching. This group will meet at 10:00 and 11:00 daily in the industrial education building.

Professor Brown and Dr. Hornbake will work with students on other types of professional problems.)

Ind. Ed. 248. Seminar in Industrial Arts and Vocational Education (2).
10:00; T-20. (Brown.)

This seminar deals with the issues and functions of industrial arts and vocational education, particularly in respect to the emerging changes in educational planning on the secondary school level. Opportunity is given to students majoring in industrial education to write one of the seminar reports required for the degree of Master of Education.

NOTE: Pending the issuance of the revised Maryland State Plan for Vocational Education for the period of 1952-1957, none of the specific courses required for certification as vocational-industrial teachers in Maryland could be scheduled for the 1952 summer session. In urgent cases, however, where students must have any of these courses prior to September 1 special arrangements may be made with the head of the Department of Industrial Education for satisfying such course requirements.

SCIENCE EDUCATION

***Sci. Ed. 1. Science for the Primary Grades (2).** Laboratory fee, \$1.00.
Not offered in 1952.

This course considers the characteristics of elementary school children in grades one through three. Selecting, organizing, and presenting science materials appropriate to this level is done in relation to these characteristics.

***Sci. Ed. 2. Science of the Primary Grades (2).** Laboratory fee, \$1.00. 10:00; T-10. (Crook.)

This is a continuation of the previous course, using different subject matter areas to provide a wider range of experiences.

***Sci. Ed. 3. Science for the Upper Elementary Grades (2).** Laboratory fee, \$1.00. Not offered in 1952.

This course is designed to meet the needs of teachers of grades four, five, and six by providing background material from selected phases of science which can contribute to these levels. Special attention will be given to materials of the local environment.

***Sci. Ed. 4. Science for the Upper Elementary Grades (2).** Laboratory fee, \$1.00. 9:00; T-10. (Crook.)

This is a continuation of the previous course, using different subject matter materials to provide a wider background of experiences.

Sci. Ed. 105. Workshop in Science for Elementary Schools (2). Laboratory fee, \$2.00. T., Th., 1:00-3:30; T-10. (Crook.)

This course gives teachers an opportunity to acquire science understandings and to develop materials which are of practical value. The emphasis is on content closely related to science units developed in elementary schools.

Enrollment limited to 25 students.

ENGLISH

Eng. 1, 2. Composition and American Literature (3, 3). Eight periods a week. Eng. 1 is the prerequisite of Eng. 2. (Ball and Staff.)

Eng. 1—

Section 1—Daily, 8:00; M., W., F., 9:00; A-18.

Section 2—Daily, 8:00; M., W., F., 9:00; A-17.

Section 3—Daily, 10:00; M., W., F., 11:00; A-18.

Eng. 2—

Section 1—Daily, 8:00; M., W., F., 9:00; A-209.

Section 2—Daily, 10:00; M., W., F., 11:00; A-17.

Section 3—Daily, 10:00; M., W., F., 11:00; A-209.

Eng. 3, 4. Composition and World Literature (3, 3). Eight periods a week. Prerequisite, Eng. 1, 2. (Cooley and Staff.)

Eng. 3—

Section 1—Daily, 8:00; M., W., F., 9:00; A-204.

Section 2—Daily, 10:00; M., W., F., 11:00; A-204.

Eng. 4—

Section 1—Daily, 8:00; M., W., F., 9:00; A-203.

Section 2—Daily, 10:00; M., W., F., 11:00; A-203.

Section 3—Daily, 10:00; M., W., F., 11:00; A-133.

* Students may receive credit for both Sci. Ed. 1 and Sci. Ed. 2 or Sci. Ed. 3 and Sci. Ed. 4, but no other combination is acceptable.

Eng. 5. Composition and English Literature (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; A-207. Prerequisite, Eng. 1, 2.

(Zeeveld.)

Eng. 8S. College Grammar (2). 10:00; A-106. Prerequisite, Eng. 1, 2.
(Harman.)

An analytical study of Modern English grammar, with lectures on the origin and history of inflectional and derivational forms.

Eng. 104S. Chaucer (2). 11:00; A-106. Prerequisite, Eng. 1, 2 and 3, 4 or 5, 6.
(Harman.)

A literary and language study of the Canterbury Tales, Troilus and Criseyde, and the principal minor poems.

Eng. 110S. Elizabethan and Jacobean Drama (2). 8:00; A-133. Prerequisite, Eng. 1, 2 and 3, 4 or 5, 6.
(Zeeveld.)

The most important dramatists of the time, other than Shakespeare.

Eng. 143S. Modern Poetry (2). 12:00; A-17. Prerequisite, Eng. 1, 2 and 3, 4 or 5, 6.
(Murphy.)

The chief British and American poets of the twentieth century.

Eng. 156S. Four Major American Writers (2). 10:00; A-212. Prerequisite, Eng. 1, 2 and 3, 4 or 5, 6.
(Bode.)

During this summer session the works of James Russell Lowell and Oliver Wendell Holmes will be studied.

Eng. 157S. Introduction to Folklore (2). 9:00; A-133. Prerequisite, Eng. 1, 2 and 3, 4 or 5, 6.
(Cooley.)

Historical background of folklore studies; growth of the field; types of folklore. Emphasis upon American folklore: ballads; folk songs; folk tales; regional customs and beliefs.

Eng. 200. Research (3-6). Arranged. (Murphy and Staff.)

Eng. 225S. Seminar in American Literature (2). 9:00; A-212. Prerequisite, graduate standing.
(Bode.)

Studies in mid-nineteenth century culture.

ENTOMOLOGY

Ent. 110, 111. Special Problems (1, 1). Prerequisites to be determined by instructor. Arranged. (Cory.)

An intensive investigation of some entomological problem, preferably of the students choice. Required of majors in entomology.

Ent. 201. Advanced Entomology. Credit and prerequisites to be determined by the department. To be arranged. (Cory and Staff.)

Studies of minor problems in morphology, taxonomy and applied entomology, with particular reference to the preparation of the students for individual research.

Ent. 202. Research. Credit depends upon the amount of work done. To be arranged. (Cory and Staff.)

Required of graduate students majoring in Entomology. This course involves research on an approved project. A dissertation suitable for publication must be submitted at the conclusion of the studies as a part of the requirements for an advanced degree.

FOREIGN LANGUAGES AND LITERATURE

FRENCH

Fr. 2. Elementary French (3). Eight periods a week. Daily, 8:00; M., W., F., 11:00; Q-140. Second semester of first-year French. (Falls.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Fr. 4 or 5. Intermediate Literary French (3). Eight periods a week. Daily, 9:00; M., W., F., 12:00; O-30. Prerequisite, French 1 and 2, or equivalent. (Falls.)

Translation; conversation, exercises in pronunciation. Reading of texts designed to give some knowledge of French life, thought, and culture.

Fr. 6 or 7. Intermediate Scientific French (3). Eight periods a week. Daily, 8:00; M., W., F., 12; room to be arranged. Prerequisite, French 1 and 2, or equivalent. (Kramer.)

GERMAN

Ger. 2. Elementary German (3). Eight periods a week. Daily, 10:00; M., W., F., 1:00; Q-140. Second semester of first-year German. (Cunz.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Ger. 4 or 5. Intermediate Literary German (3). Eight periods a week. Daily, 8:00; M., W., F., 11:00; O-30. Prerequisite, German 1 and 2, or equivalent. (Cunz.)

Reading of narrative prose, grammar review, and oral and written practice.

Ger. 6 or 7. Intermediate Scientific German (3). Eight periods a week. Daily, 9:00; M., W., F., 11:00; room to be arranged. Prerequisite, German 1 and 2, or equivalent. (Kramer.)

SPANISH

Span. 2. Elementary Spanish (3). Eight periods a week. Daily, 9:00; M., W., F., 12:00; Q-140. Second semester of first-year Spanish. (Parsons.)

Elements of grammar; pronunciation and conversation; exercises in composition and translation.

Span. 4 or 5. Intermediate Literary Spanish (3). Eight periods a week. Daily, 10:00; M., W., F., 1:00; room to be arranged. Prerequisite, Spanish 1 and 2, or equivalent. (Parsons.)

Translation, conversation, exercises in pronunciation. Reading of texts designed to give some knowledge of Spanish and Latin-American life, thought, and culture.

GOVERNMENT AND POLITICS

G. & P. 1. American Government (3). Eight periods a week.

Section 1—Daily, 9:00; M., W., F., 8:00; A-110. (Staff.)

Section 2—Daily, 10:00; M., W., F., 11:00; A-110. (Dixon.)

Section 3—Daily, 11:00; M., W., F., 12:00; A-228. (Staff.)

This course is designed as the basic course in government for the American Civilization program, and it or its equivalent is a prerequisite to all other courses in the Department. It is a comprehensive study of government in the United States—national, state and local—and of their adjustment to changing social and economic conditions.

G. & P. 10. The Governments of Russia and the Far East (2). Five periods a week. Daily, 8:00; A-228. Prerequisite, G. & P. 1. (Steinmeyer.)

A study of the governments of Russia, China, and Japan.

G. & P. 105. Recent Far Eastern Politics (3). Eight periods a week. Daily, 9:00; M., W., F., 10:00; A-228. Prerequisite, G. & P. 1.

The background and interpretation of recent political events in the Far East and their influence on world politics.

G. & P. 106. American Foreign Relations (3). Eight periods a week. Daily, 11:00; M., W., F., 12:00; Q-28A. Prerequisite, G. & P. 1. (Starr.)

The principles and machinery of the conduct of American foreign relations, with emphasis on the Department of State and the Foreign Service, and an analysis of the major foreign policies of the United States.

G. & P. 142S. Recent Political Theory (2). Five periods a week. Daily, 8:00; A-231. Prerequisite, G. & P. 1. (Dixon.)

A study of 19th and 20th century political thought, with special emphasis on recent theories of socialism, communism, and fascism.

G. & P. 201. Seminar in International Political Organization (3). To be arranged. (Starr.)

A study of the forms and functions of various international organizations.

G. & P. 299. Thesis Course (3, 6). To be arranged. (Staff.)

HISTORY

H. 5. History of American Civilization (3). Eight periods a week.

Section 1—Daily, 8:00; M., W., F., 9:00; A-12. (Gordon.)

Section 2—Daily, 9:00; M., W., F., 8:00; A-106. (Stromberg.)

Section 3—Daily, 10:00; M., W., F., 11:00; A-21. (Wellborn.)

From the colonial period through the American Civil War. Required of all students for graduation.

H. 6. History of American Civilization (3). Eight periods a week.

Section 1—Daily, 9:00; M., W., F., 8:00; A-130. (Sparks.)

Section 2—Daily, 11:00; M., W., F., 12:00; A-212. (Neumann.)

Section 3—Daily, 10:00; M., W., F., 11:00; A-12. (Bates.)

From the American Civil War to the present. Required of all students for graduation.

H. 116S. The Civil War (2). 12:00; A-12. Prerequisites, H. 5, 6, or the equivalent. (Sparks.)

Military aspects; problems of the Confederacy; political, social, and economic effects of the war upon American society.

H. 117S. The New South (2). 8:00; A-207. Prerequisites, H. 5, 6, or the equivalent.

The South's place in the Nation from Appomattox to the present with special reference to regional problems and aspirations.

H. 119S. Recent American History (2). 11:00; A-130. Prerequisites, H. 5, 6, or equivalent. (Stromberg.)

Party politics, domestic issues, social and economic trends, foreign relations of the United States since about 1920.

H. 129S. The United States in World Affairs (2). 8:00; A-212. Prerequisites, H. 5, 6, or the equivalent. (Wellborn.)

A consideration of the changed position of the United States with reference to the rest of the world since 1917.

H. 146S. Latin-American History (2). 9:00; A-207. (Neumann.)

The political, economic and social problems of Latin America in the national period and relations with the United States. Emphasis on Argentina.

H. 166S. Revolutionary and Napoleonic Europe (2). 10:00; A-130. Prerequisites, H. 1, 2, or H. 3, 4. (Gordon.)

The Old Regime in France and Europe; the changes effected by the French Revolution; the Napoleonic regime and the balance of power, 1789-1815.

H. 191. History of Russia (3). Daily, 10:00; M., W., F., 11:00; A-231. Prerequisites, H. 1, 2, or consent of the instructor. (Bauer.)

A history of Russia from the earliest times to the present day.

H. 192S. Foreign Policy of the U. S. S. R. (2). 9:00; A-231. Prerequisite, H. 191, or consent of the instructor. (Bauer.)

A survey of Russian foreign policy in the historical perspective, with special emphasis on the period of the U. S. S. R. Russian aims, expansion, and conflicts with the western powers in Europe, the Near and Middle East, and the Far East will be studied.

H. 200. Research (2-6). Credit proportioned to amount of work.
Arranged. (Gewehr and Staff.)

H. 282. Problems in the History of World War II (3). T., Th., 2-4:30
P. M.; A-12. (Prange.)

Investigation of various aspects of the Second World War, including military operations, diplomatic phases, and political and economic problems of the war and its aftermath.

HOME ECONOMICS

Clo. 122. Tailoring (2). 8:00, 9:00; H-132. Prerequisite, Clo. 22 or equivalent. Laboratory fee, \$3.00. (Mitchell.)

Construction of tailored garments requiring professional skill.

Nut. 10. Elements of Nutrition (3). Eight periods a week. Daily, 9:00; M., W., F., 8:00; H-222. (Braucher.)

How to evaluate nutritional health in school children; application of the principles of nutrition through health education in the school; and through the school lunch program.

Nut. 110. Nutrition (3). July 7-August 1. 10:00, 11:00, 12:00; H-222. Prerequisite, experience in food supervision or teaching. Laboratory fee \$7.00. (Braucher.)

A study of the fundamentals of nutrition. Nutrition knowledge applied in the fields of dietetics and teaching through the use of demonstrations, experimental and visual materials. A series of lecture sessions followed by a series of workshop-laboratory sessions.

Nutrition 210. Readings of Nutrition (3). By Arrangement. H. 222 (Braucher.)

Reports and discussion of outstanding nutritional research and investigation.

Foods 101. Meal Service (2). Daily, 11:00; M., W., 12:00, 1:00; H-203. Prerequisite, Foods 1, or 2, 3, or consent of instructor. Laboratory fee, \$7.00. (Crow.)

Planning and serving meals for family groups considering nutritional needs, purchasing and cost of foods, and budgeting of preparation time. Some emphasis on outdoor cookery, meals from the freezer and informal entertaining.

Home Mgt. 152. Experience in Management of the Home (3). Prerequisite, Home Mgt. 150, 151. Laboratory fee, \$7.00. (Crow, Love.)

Residence for five weeks in the Home Management House. Experience in planning, guiding, directing, coordinating, and participating in the activities of a household composed of a faculty member and a small group of students.

Tex. & Clo. 232. Economics of Textiles and Clothing (textiles for today) (3). May be taken without credit. Daily, 10:00, 11:00, 1:00, 2:00. June 30

through July 18; H-19. Enrollment limited. Advanced registration necessary. Laboratory fee \$3.00. (Mitchell, Wilbur.)

A course of special interest to teachers, extension specialists, department store executives, and consumers. It covers the recent developments in the textile field, and the problems involved in clothing the family. Gives an opportunity to discuss with representatives from industry, government agencies, consumer groups and private organizations their contributions to this field. Field trips will acquaint the class with the unique services available in the Washington area. The National Institute of Cleaning and Dyeing of Silver Spring, Maryland, will cooperate in studying the care of textiles.

Workshop for Executive Housekeepers. July 8-11. Fee, \$10.00. (Crow.)

This is the second workshop offered at the request of the District of Columbia and Maryland Chapters, National Executive Housekeepers Association. Topics dealing with administration, personnel, sanitation, and furnishings will be included. Advanced registration necessary.

HORTICULTURE

Hort. 122. Special Problems (2). Credit arranged according to work done. For major students in horticulture or botany. (Staff.)

Hort. 208. Advanced Horticultural Research (2-6). Credit granted according to work done. (Staff.)

LIBRARY SCIENCE

L. S. 101. School Library Administration (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; Library Annex. (Bennett.)

The organization and maintenance of effective library service in the modern school. Planning and equipping library quarters, purpose of the library in the school, standards, instruction in the use of books and libraries, training student assistants, acquisition of materials, repair of books, publicity, exhibits, and other practical problems.

L. S. 103. Book Selection for School Libraries (3). Eight periods a week. Daily, 1:00; M., W., F., 2:00; Library Annex. (Bennett.)

Principles of book selection as applied to school libraries. Practice in the effective use of book selection aids and in the preparation of book lists. Evaluation of publishers, editions, translations, format, etc.

MATHEMATICS

Math. 6. Mathematics of Finance (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; J-12. (Shepherd.)

Prerequisite, Math. 5, or equivalent. Required of students in the College of Business and Public Administration and open to students in the College of Arts and Sciences for elective credit only.

Simple and compound interest, discount, amortization, sinking funds, valuation of bonds, depreciation, annuities.

Math. 10. Algebra (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; J-10. Prerequisite, one unit each of algebra and plane geometry. (Wolfsohn.)

Open to biological, pre-medical, pre-dental, and general Arts and Sciences students.

Fundamental operations, factoring, fractions, linear equations, exponents and radicals, logarithms, quadratic equations, variation, binominal theorem, theory of equations.

Math. 11. Trigonometry and Analytic Geometry (3). Eight periods a week. Daily, 8:00; M., W., F., 9:00; J-10. (Wolfsohn, Shepherd.)

Prerequisite, Math. 10, or equivalent. Open to biological, pre-medical, pre-dental, and general Arts and Sciences students. This course is not recommended for students planning to enroll in Math. 20.

Trigonometric functions, identities, addition formulas, solution of triangles, coordinates, locus problems, the straight line and circle, conic sections, graphs.

Math. 14. Plane Trigonometry (2). Daily 9:00; J-2. Prerequisite, Math. 15 or concurrent enrollment in Math. 15. Open to students in engineering, education, and the physical sciences. (Spencer.)

Trigonometric functions, identities, the radian, graphs, addition formulas, solution of triangles, trigonometric equations.

Math. 15. College Algebra (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; J-13. (Good.)

Prerequisite, high school algebra completed. Open to students in engineering, education, and the physical sciences.

Fundamental operations, variation, functions and graphs, quadratic equations, theory of equations, binominal theorem, complex numbers, logarithms, determinants, progressions.

Math. 17. Analytic Geometry (4). Twelve periods a week. M., T., W., Th., F., S., 8:00, 9:00; J-107. (Mehegan.)

Prerequisite, Math. 14 and 15, or equivalent. Open to students in engineering, education, and the physical sciences.

Coordinates, locus problems, the straight line and circle, graphs, transformation of coordinates, conic sections, parametric equations, transcendental equations, solid analytic geometry.

Math. 20. Calculus (4). Twelve periods a week. M., T., W., Th., F., S., 8:00, 9:00; J-11. (Greenspan.)

Prerequisite, Math. 17, or equivalent. Open to students in engineering and physical sciences.

Limits, derivatives, differentials, maxima and minima, curve sketching, curvature, kinematics, integration.

Math. 21. Calculus (4). Twelve periods a week. M., T., W., Th., F., S., 10:00, 11:00; J-11. (Hall.)

Prerequisite, Math. 20, or equivalent. Open to students in engineering, education, and physical sciences.

Integration with geometric and physical applications, partial derivatives, space geometry, multiple integrals, infinite series.

Math. 64. Differential Equations for Engineers (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; J-104. (Jackson.)

Prerequisite, Math. 21, or equivalent. Required of students in mechanical and electrical engineering.

Differential equations of the first and second order with emphasis on their engineering applications.

Math. 106S. Introduction to the Theory of Numbers (2). Daily, 8:00; J-104. Prerequisite, Math. 21, or consent of instructor. (Good.)

Designed for teachers of high school mathematics. Topics will be selected from the following: Integers, divisibility, Euclid's algorithm, Diophantine equations, prime numbers, Moebius function, congruences, residues.

Math. 128S. Higher Geometry (2). Daily, 9:00; J-104. Prerequisite, Math. 21, or consent of instructor. (Jackson.)

Designed for teachers of geometry in high school. Emphasis is placed on the geometry of the triangle and the circle with a view to enlarging the teacher's background in plane geometry.

Math. 116.—Introduction to Complex Variable Theory (3). Daily 10:00; M., W., F., 11:00; J-107. Prerequisite, Math. 21, or consent of instructor. Open to students in engineering and the physical sciences. (Spencer.)

Fundamental operations in complex numbers, differentiation and integration, sequences and series, power series, analytic functions, conformal mapping, residue theory, special functions.

Math. 300. Research. Arranged. (Staff.)

MUSIC

Mus. 1. Appreciation (3). Daily, 8:00; M., W., F., 9:00; B-1. (Randall.)

A study of all types of classical music (not including opera) from the time of Haydn, with a view to developing the ability to listen and enjoy.

Mus. S4. Summer School Chorus (1). Daily, 12:00; B-1. (Romaine.)

Open to all students attending the Summer Session. Work will be directed toward the presentation of a Summer School Concert one evening during the fifth or sixth week of the Summer Session.

Mus. Ed. 125. Creative Activities in the Elementary School Which Contribute to Musical Development (2). Daily, 9:00; B-4. Prerequisite, consent of instructor. (Kemble.)

This course deals with musical experiences in creative listening and creative response to rhythm and mood, creative use of percussion and simple melody instruments, creative melody writing, creative interpretation of music performed. Creative interpretation and creative writing will also be studied in connection with its development through correlation with other areas and creative programs.

Mus. Ed. 127. Methods and Materials for Program Productions in the Secondary School (2). Daily, 10:00; B-4. Prerequisite, consent of instructor. (Romaine.)

Designed especially for those interested in presenting musical assemblies, concerts and programs for all types. Methods of presentation and materials suitable for various occasions will be discussed.

Mus. Ed. 128. Workshop in Music for Elementary Schools (2). Daily, 11:00; B-4. Prerequisite, consent of instructor. (Kemble.)

A workshop designed to make a study of the vocal and instrumental program in the Elementary School Curriculum.

Mus. Ed. 132. Workshop in Music for Junior High School (2). Daily, 1:00; B-4. Prerequisite, consent of instructor. (Kemble.)

A workshop designed to make a study of the vocal and instrumental programs in the Junior High School Curriculum.

Mus. Ed. 170. Methods and Materials for Class Piano Instructions (2). Daily, 9:00; B-2. Prerequisite, consent of instructor. (Romaine.)

This course deals with the fundamental principles of teaching piano in a group of students of various grade levels. It includes the technique and procedures involved in teaching class piano and a survey of materials for piano class instructions and recommendation for their use.

PHILOSOPHY

Phil. 120. Oriental Philosophy (3). Daily, 9:00; M., W., F., 8:00; E-214. (Robinson.)

A survey of religious and philosophical thought of the Orient to the present time. The survey will cover Indian thought as expressed in the Rig-Veda, the Upanishads, Buddhism and the six Brahminical systems; and Chinese thought as expressed in the writings of Confucius, Lao-tse, and their disciples. Particular attention will be given to the development of Chinese individualism and democratic ideals from Mencius to the present day, and to the conflict of these ideals with Communist thought.

Phil. 130. The Conflict of Ideals in Western Civilization (3). Daily, 10:00; M., W., F., 11:00; E-214. (Dewey.)

Critical and constructive study, from a broad philosophical perspective, of some of the most important contemporary conflicts of social ideals. In the light of the best philosophical knowledge the assumptions, goals, and methods of democracy, fascism, socialism and communism will be examined with special attention given to the ideological conflict between the United States and Russia.

PHYSICAL EDUCATION, RECREATION, AND HEALTH

Physical Education for Women, fee per semester, \$3.00. To be charged for any woman registered in any course or combination of courses in Physical Education involving the use of the Swimming Pool.

P. E. S10. Tennis (1). M., T., Th., 1:00, 2:00. Ar-122. (Kehoe.)

Introduction and practice in basic strokes, rules of the game, care and selection of equipment.

P. E. S16. Swimming (1). (Neyendorff.)

Section 1—Daily, 1:00; Pool (Elementary).

Section 2—Daily, 2:00; Pool (Intermediate).

Section 3—Daily, 3:00; Pool (Advanced).

P. E. S20. Badminton (1). Daily, 2:00; Gym. (Cheek.)

Instruction and practice in basic strokes, rules of the game, care and selection of equipment.

P. E. S30. Archery (1). Daily, 11:00; Women's Field House. (Neyendorff.)

Introduction and practice; scoring; competition in varying types of shooting.

P. E. S40. Golf (1). W., 1 to 5; Armory. (Cronin.)

Selection of equipment; rules of the game. Techniques of the drive, approach, and putt. Instruction in golf as a competitive game; intramural and interscholastic.

....**P. E. S50. Square Dance (1).** Daily, 9:00; Gym. (Johnson.)

Study of American square and round dances for use in schools and recreational groups.

P. E. S131. Coaching Basketball (2). M., T., Th., 1:00, 2:00; Col. (Milikan.)

Methods of coaching basketball in high schools and colleges.

P. E. S133. Coaching Football (2). M., T., Th., 10:00, 11:00; Col. (Tatum and Staff.)

Methods of coaching football in high schools and colleges.

P. E. 130. Fundamentals of Body Dynamics (3). M., T., W., Th., 10:00, 11:00; Women's Field House. (Wessel.)

An individualized course designed for teachers in the elementary schools. Presentation of scientific principles applied to fundamental motor skills, posture and body mechanics as they relate to physical growth and development; an integration of these principles in the teacher's plan and total school organization.

P. E. 160. Therapeutics (3) M., T., W., Th., 8:00, 9:00. Women's Field House. (Wessel.)

A study of common structural abnormalities, corrective (adaptive) exercises, and massage. Causes, prevention, and correction of postural defects. Testing methods, theory and practice.

P. E. 180. Measurement in Physical Education and Health (3). M., T., W., Th., 10:00, 11:00; G-202. (Massey.)

The application of measurement to physical and health education.

P. E. 200. Seminar in Physical Education, Recreation, and Health (1). Daily, 12:00; G-203. (Staff.)

P. E. 201. Foundations in Physical Education, Recreation, and Health (3). M., T., W., Th., 10:00, 11:00; G-202. (Deach.)

An overall view of the total fields with their inter-relationships and places in education.

P. E. 203. Supervisory Techniques in Physical Education, Recreation, and Health (3). M., T., W., Th., 10:00, 11:00; W-131. (Mohr.)

Principles and practice of supervision applied to the special fields indicated. Includes evaluation of facilities, programs, personnel, and processes, using either survey or guidance techniques.

P. E. 210. Methods and Techniques of Research (3). M., T., W., Th., 8:00, 9:00; W-131. (Mohr.)

A study of methods and techniques of research used in physical education, recreation, and health education; an analysis of examples of their uses; and practice in their application to problems of interest to the student.

P. E. 220. Quantitative Methods (3). M., T., W., Th., 8:00, 9:00; G-203. (Massey.)

A course covering the statistical techniques most frequently used in research pertaining to physical education, recreation, and health education. An effort will be made to provide the student with the necessary skills, and to acquaint him with the interpretations and practical applications of these techniques.

P. E. 288. Research (1-6). Arranged. (Staff.)

Master of Education or Doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for 1-6 hours of credit under this number. A master of Education candidate may register for two or more credits under this number and write his seminar paper.

P. E. 289. Thesis (1-6). Arranged. (Staff.)

Students who desire credits for the Master's thesis, a Doctoral dissertation, or a Doctoral project should use this number.

P. E. 290. Administrative Direction of Physical Education, Recreation, and Health (3). M., T., W., Th., 1:00, 2:00; G-201. (Johnson.)

A course designed to acquaint school administrators with the administrative techniques, opportunities and responsibilities in the modern pro-

grams of physical education, recreation, and health education on a co-ordinated school-home-community basis. It will include an overview of the best present practices, recommendations of national bodies and the development of standards for selection of professional personnel, evaluation of programs, development of facilities and allocation of budget.

Rec. 100. Co-Recreational Games and Programs (2). M., T., W., Th., 9:00, 10:00; Gym. (Harvey.)

Activities for social recreation on playgrounds, industries, camps, churches, and gymnasias.

Hea. 160. Problems in School Health Education (3, 3).
(McCormick and Key.)

Two workshops, each of three weeks' duration and carrying three semester hours of credit, will be given. The first workshop will be planned primarily for elementary school personnel; the second will be planned for secondary school personnel. The workshops will deal with health services, healthful environment, and health instruction with emphasis in the latter.

Hea. 230. Public Health Education (3). M., T., W., Th., 10:00, 11:00; Women's Field House. (Key.)

A survey course designed to acquaint the student with the current major problems in public health, and to enable him to recognize and understand the relationships and relative importance of these problems.

Hea. 240. Advancements in Modern Health (3). M., T., W., Th., 10:00, 11:00; G-201. (Johnson.)

Latest knowledge of the fundamental principles involved in personnel, community, state and national health; functions and relationships of the various health agencies cooperating with the education faculties and their contributions to health; present status of preventive medicine and sanitation.

PHYSICS

Phys. 100. Advanced Experiments. Three hours laboratory work for each credit hour. One or more credits may be taken concurrently. Prerequisites, Phys. 52 or 54 and four credits in Phys. 60. Laboratory fee, \$6.00 per credit hour.

Phys. 250. Research. Credit according to work done. Laboratory fee, \$6.00 per credit hour.

POULTRY

P. H. 205. Poultry Literature (1-4). (Staff.)

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

P. H. 206. Poultry Research. Credit in accordance with work done.
(Staff.)

Practical and fundamental research with poultry may be conducted under the supervision of staff members toward the requirements for the degrees of M.S. and Ph.D.

PSYCHOLOGY

Psych. 1. Introduction to Psychology (3). Daily, 9:00; M., W., F., 8:00; DD-10. (Heintz.)

A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.

Psych. 2. Applied Psychology (3). Daily, 9:00; M., W., F., 8:00; DD-11. Prerequisite, Psych. 1. (Ayers.)

Application of research methods to basic human problems in business and industry, in the professions, and in other practical problems of everyday life.

Psych. 125S. Child Psychology (2). Daily, 10:00; DD-11. Prerequisite, Psych. 1. (Heintz.)

Behavioral analysis of normal development and normal socialization of the growing child.

Psych. 161S. Psychological Techniques in Personnel Administration (2). Daily, 11:00; DD-12. Prerequisite, Psych. 1. (Ayers.)

A survey course, intended for those who plan to enter some phase of personnel or industrial work.

Psych. 194. Independent Study in Psychology (1-3). Hours arranged. Prerequisite, written consent of instructor. (Hackman.)

Intergrated reading under direction, leading to the preparation of an adequately documented report on a special topic.

Psych. 290. Research for Thesis (Credit arranged). Hours arranged. Prerequisite, written permission by faculty supervisor. (Hackman.)

SOCIOLOGY

Soc. 1. Sociology of American Life (3). Eight periods a week. Daily, 8:00; M., W., F., 9:00; R-205. (Imse.)

Sociological analysis of the American social structure; metropolitan, small town, and rural communities; population distribution, composition and change; social organization.

Soc. 2. Principles of Sociology (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; R-113. (Bailey.)

The basic forms of human association and interaction; social processes; institutions; culture, human nature and personality.

Soc. 51S. Social Pathology (2). 9:00; R-7. (Shankweiler.)

Personal-social disorganization and maladjustment; physical and mental handicaps; economic inadequacies; programs of treatment and control.

Soc. 115S. Industrial Sociology (2). 11:00; R-7. (Imse.)

Social organization of American industry; functions of members of industrial organization, status, social structure, patterns of interaction, and relations of industry and society.

Soc. 123S. Ethnic Minorities (2). 9:00; R-101. (Lejins.)

Basic social processes in the relations of ethnic groups within the state; immigration groups and the Negro in the United States; ethnic minorities in Europe.

Soc. 136S. Sociology of Religion (2). 8:00; R-101. (Bailey.)

Varieties and sources of religious experience. Religious institutions and the role of religion in social life.

Soc. 153. Juvenile Delinquency (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; R-205. (Lejins.)

Juvenile delinquency in relation to the general problem of crime; analysis of factors underlying juvenile delinquency; treatment and prevention.

Soc. 160. Interviewing in Social Work (1½). Time to be arranged; R-204. (Roth.)

The techniques of interviewing in social work with particular reference to methods applicable to visiting teaching work.

Soc. 162. Basic Principles and Current Practice in Public Welfare (3). Time to be arranged; R-204. (Roth.)

The broad basis of public welfare principles as applied to the particular problems of visiting teacher work. This course includes field work and individual consultation with the instructor.

Soc. 163. Attitude and Behavior Problems in Public School Work (1½). Time to be arranged; R-204. (Roth.)

Attitude and behavior problems of public school pupils with particular reference to visiting teacher work.

Soc. 191. Social Field Training. Credit to be determined. Time to be arranged. (Staff.)

Soc. 262. Family Studies (3). Time to be arranged. (Shankweiler.)

Case studies of family situations; statistical studies of family trends; methods of investigation and analysis.

Soc. 290. Research in Sociology. Credit to be determined. Time to be arranged. (Staff.)

Thesis research.

Soc. 291. Special Social Problem. Credit to be determined. Time to be arranged. (Staff.)

Individual research on selected problems.

SPEECH AND DRAMATIC ART

Speech 1. Public Speaking (2). 8:00; R-102. Fee, \$1.00. (Starcher.)
The preparation and delivery of short original speeches. Outside readings; reports, etc.

Speech 2. Public Speaking (2). 9:00; R-102. Fee, \$1.00. Prerequisite, Speech 1. (Starcher.)

Speech 4. Voice and Diction (3). Eight periods a week. Daily, 9:00; M., W., F., 8:00; R-113. (Mayer.)

Emphasis upon the improvement of voice, articulation, and phonation.

Speech 10. Group Discussion (2). 11:00; R-102. (Starcher.)

A study on the principles, methods, and types of discussion, and their application in the discussion of contemporary problems.

Speech 16. Introduction to the Theatre (3). Eight periods a week. Daily, 10:00; M., W., F., 11:00; R-101. (Mayer.)

A general survey of the fields of the theatre. Prerequisite for all courses in drama.

ZOOLOGY

Zool. 1. General Zoology (4). Five lectures and five two-hour laboratory periods a week. Lecture, daily, 8:00; laboratory, 9:00, 10:00; EE-15. Laboratory fee, \$8.00. (Grollman.)

This course, which is cultural and practical in its aim, deals with the basic principles of animal life. Typical invertebrates and a mammalian form are studied.

Zool. 55. Development of the Human Body (2). Five lecture periods a week. Lecture, daily, 11:00; M-107. (Anastos.)

A study of the main factors affecting the pre-natal and post-natal growth and development of the child with especial emphasis on normal development.

Zool. 101. Mammalian Anatomy (3). Laboratory to be arranged. Registration limited. Permission of instructor must be obtained before registration. Recommended for pre-medical students and those whose major is Zoology. M-300. Laboratory fee, \$8.00. (Stringer.)

A course in the dissection of the cat or other mammal. By special permission of the instructor, a vertebrate other than the cat may be used for study.

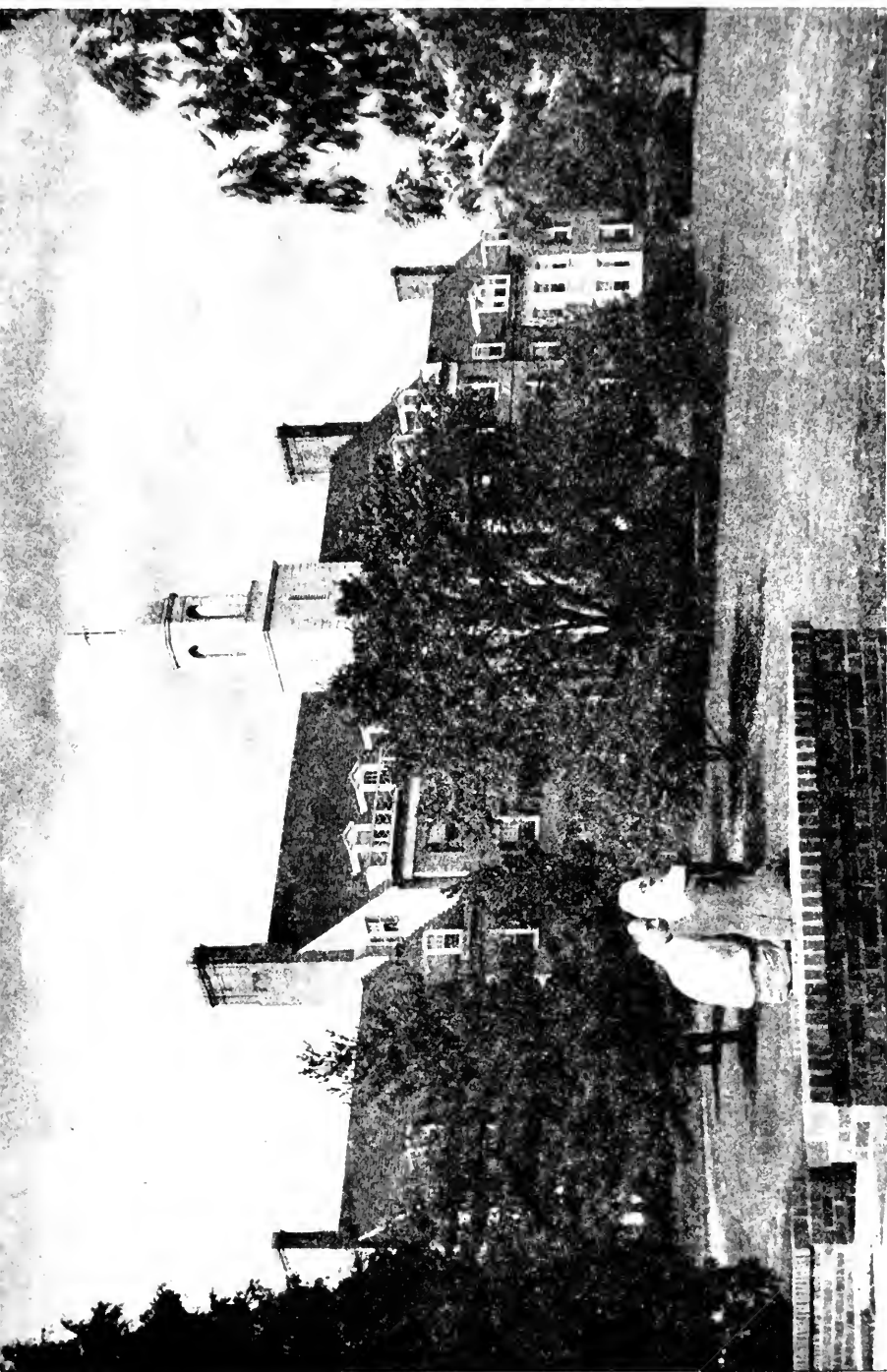
Zool. 104. Genetics (3). Eight lecture periods a week. Lecture, daily, 9:00; M., W., F., 10:00; EE-15. Prerequisite, one course in zoology or botany. Recommended for pre-medical students. (Burhoe.)

A consideration of the basic principles of heredity.

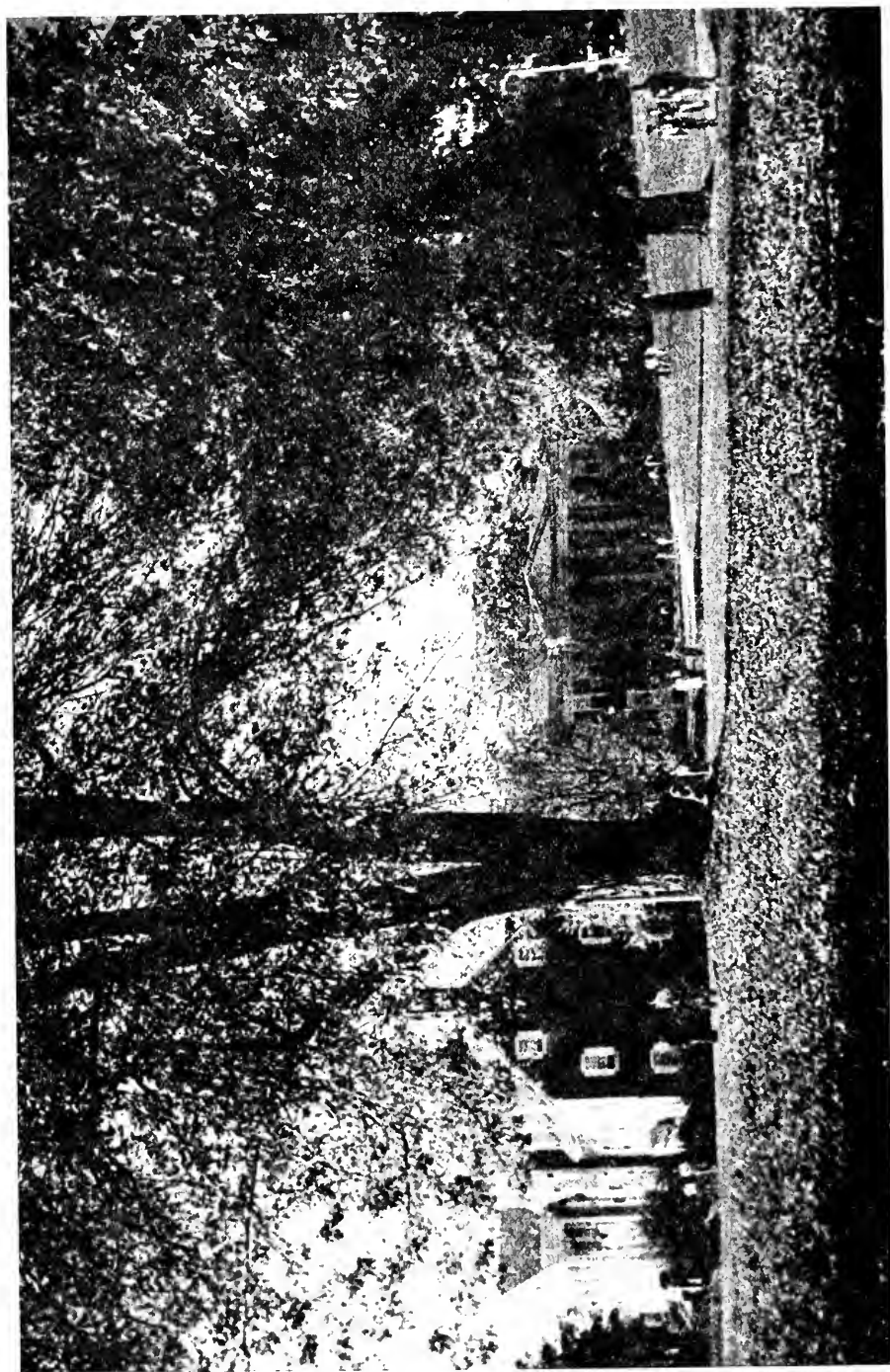
Zool. 206. Research. Credit to be arranged. Laboratory fee, \$8.00.

(Staff.)

Zool. 208. Special Problems in General Physiology. Credits and hours arranged. Laboratory fee, \$8.00. (Phillips.)



Anne Arundel Hall, College Park



Dormitory Area at College Park

