



# DENISON

UNIVERSITY  
BULLETIN

CATALOG NUMBER 1956-57

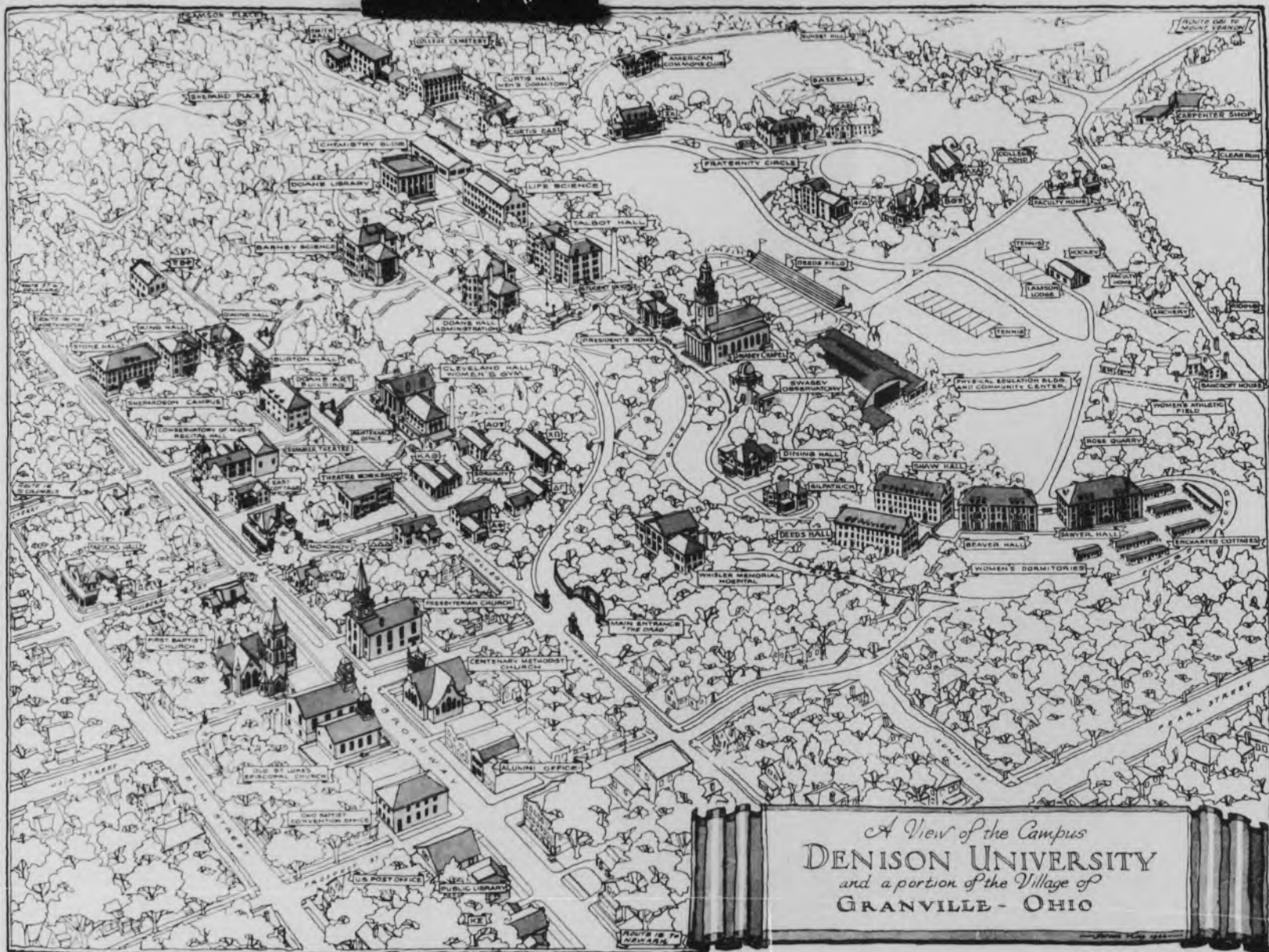




# DENISON

UNIVERSITY  
BULLETIN

CATALOG NUMBER 1956-57





# DENISON UNIVERSITY BULLETIN

*Granville, Ohio*

1956-57

*126th Academic Year*



A COLLEGE OF LIBERAL  
ARTS AND SCIENCES



Founded 1831

CATALOG NUMBER

Volume LVI, No. 3

October, 1956

The Denison University Bulletin is published by Denison University, Granville, Ohio, four times a year in June, August, October, and November. Entered as second class matter at the Post Office at Granville, Ohio, under the Act of August 24, 1912.

# CALENDAR

## 1956-1957

1956	1957
<b>JULY</b>	<b>JANUARY</b>
S M T W T F S	S M T W T F S
1 2 3 4 5 6 7	-- 1 2 3 4 5
8 9 10 11 12 13 14	6 7 8 9 10 11 12
15 16 17 18 19 20 21	13 14 15 16 17 18 19
22 23 24 25 26 27 28	20 21 22 23 24 25 26
29 30 31 -- -- --	27 28 29 30 31 -- --
<b>AUGUST</b>	<b>FEBRUARY</b>
S M T W T F S	S M T W T F S
-- -- -- 1 2 3 4	-- -- -- -- 1 2
5 6 7 8 9 10 11	3 4 5 6 7 8 9
12 13 14 15 16 17 18	10 11 12 13 14 15 16
19 20 21 22 23 24 25	17 18 19 20 21 22 23
26 27 28 29 30 31 --	24 25 26 27 28 -- --
<b>SEPTEMBER</b>	<b>MARCH</b>
S M T W T F S	S M T W T F S
-- -- -- -- -- 1	-- -- -- -- -- 1 2
2 3 4 5 6 7 8	3 4 5 6 7 8 9
9 10 11 12 13 14 15	10 11 12 13 14 15 16
16 17 18 19 20 21 22	17 18 19 20 21 22 23
23 24 25 26 27 28 29	24 25 26 27 28 29 30
30 -- -- -- -- --	31 -- -- -- -- --
<b>OCTOBER</b>	<b>APRIL</b>
S M T W T F S	S M T W T F S
-- 1 2 3 4 5 6	-- 1 2 3 4 5 6
7 8 9 10 11 12 13	7 8 9 10 11 12 13
14 15 16 17 18 19 20	14 15 16 17 18 19 20
21 22 23 24 25 26 27	21 22 23 24 25 26 27
28 29 30 31 -- --	28 29 30 -- -- --
<b>NOVEMBER</b>	<b>MAY</b>
S M T W T F S	S M T W T F S
-- -- -- -- 1 2 3	-- -- -- 1 2 3 4
4 5 6 7 8 9 10	5 6 7 8 9 10 11
11 12 13 14 15 16 17	12 13 14 15 16 17 18
18 19 20 21 22 23 24	19 20 21 22 23 24 25
25 26 27 28 29 30 --	26 27 28 29 30 31 --
<b>DECEMBER</b>	<b>JUNE</b>
S M T W T F S	S M T W T F S
-- -- -- -- -- 1	-- -- -- -- -- 1
2 3 4 5 6 7 8	2 3 4 5 6 7 8
9 10 11 12 13 14 15	9 10 11 12 13 14 15
16 17 18 19 20 21 22	16 17 18 19 20 21 22
23 24 25 26 27 28 29	23 24 25 26 27 28 29
30 31 -- -- -- --	30 -- -- -- -- --

1956

### FIRST SEMESTER

New Student Days, Saturday-Thursday,  
September 8-13  
Registration Day, Thursday,  
September 13  
Classes begin Monday, September 17  
Homecoming, Saturday, October 6  
Dad's Day, Saturday, October 27  
Thanksgiving Vacation begins  
Wednesday, November 21, noon  
Thanksgiving Vacation ends  
Monday, November 26, noon  
Pre-Registration Day, Saturday,  
December 8  
Christmas Vacation begins  
Friday, December 14, noon

1957

Christmas Vacation ends  
Thursday, January 3, noon  
Classes end Friday,  
January 18, 6 p.m.  
Comprehensive Examination Reading  
Period, Friday-Wednesday,  
January 18-23  
Comprehensive Examinations for  
Graduating Seniors, Thursday-  
Saturday, January 24-26  
Final Examinations Monday-  
Thursday, January 21-31  
First semester ends Thursday,  
January 31, 4:30 p.m.

### SECOND SEMESTER

Registration Day, Monday,  
February 4  
Classes begin Tuesday, February 5  
Spring Vacation begins Friday,  
March 29, noon  
Spring Vacation ends Monday,  
April 8, noon  
Good Friday, April 19 (No classes  
in afternoon)  
Easter Sunday, April 21  
Pre-Registration Day, Saturday,  
April 27  
May Day--Mother's Day, Saturday-  
Sunday, May 11-12  
Classes end Friday, May 24, 6 p.m.  
Comprehensive Examination Reading  
Period, Friday-Wednesday,  
May 24-29  
Comprehensive Examinations,  
Thursday-Saturday, May 30-June 1  
Final Examinations, Monday-  
Thursday, May 27-June 6  
Commencement, Monday, June 10

# TABLE OF CONTENTS

## Introduction

Map .....	<i>Frontispiece</i>
University Calendar for 1956-57 .....	2
Table of Contents .....	3
Statement of Objectives .....	4
University Calendar for 1957-58 .....	6
General Information .....	7
Air Force ROTC .....	16
Summary of Geographical Enrollment for 1956-57 .....	17
Summary of Student Enrollment for 1956-57 .....	18
Admission .....	19
Student Services .....	23
Registration .....	26
Expenses .....	29
Scholarships and Grants-in-aid .....	33
Academic Honors and Prizes .....	41
Plan of Study and Degree Requirements .....	47
Courses of Study .....	59
Courses in General Education .....	59
Departmental and Transdepartmental Courses .....	65
Conservatory of Music .....	127
Faculty .....	127
Curriculum .....	130
Personnel .....	135
Board of Trustees .....	135
Administrative Staff .....	139
Faculty .....	141
Index .....	153





SWASEY CHAPEL

## STATEMENT OF OBJECTIVES

A college of liberal arts and sciences, dedicated to Christian ideals, Denison aims to help the student become a mature, well-informed person.

Specifically, Denison seeks to enable each student to—

- Acquire facility in reading, writing, and speaking;
- Understand the cultural attainments of men;
- Know something of the meaning and methods of the main branches of learning;
- Prepare for his vocation through intensive study in a specific field;
- Think honestly, clearly, and constructively;
- Develop interest and pleasure in the continuing, creative use of his abilities and skills;
- Respect cultural and individual differences;
- Promote understanding among all peoples;
- Participate actively and responsibly in the processes of democratic government;
- Reflect high standards of taste through sound critical judgment and fine discrimination;

Achieve philosophic and religious insights for consistent and constructive living.

The assertion that Denison University is a *Christian* college is a declaration of purpose. To be *Christian* a college should seek the following:

- To foster in each student ethical and spiritual qualities;
- To integrate each personality around Christian principles and ideals;
- To stimulate a fearless and untiring search for truth;
- To develop capacity and purpose for creative social and religious living;
- To cultivate adherence to the highest ethical standards in economic, political, and social life; and
- To animate the whole group with Christian idealism.

These purposes are to be realized by the following means:

- Selection of a faculty of men and women of exemplary conduct and character, who are heartily and definitely committed to the Christian purpose of the institution, whose instruction is sympathetic with such a purpose and never hostile to it;
- Offering specific instruction in religion;
- Providing for the expression of religion through various suitable organizations and activities;
- Upholding standards of effort and achievement that are thorough and honest; and
- Observing Christian ideals in all corporate activities of the University.

By common declaration of trustees and faculty, Denison University makes these its aims to be progressively and continuously realized.

# CALENDAR 1957-1958

1957

## FIRST SEMESTER

New Student Days, Saturday-Thursday,  
September 7-12  
Registration Day, Thursday, September  
12  
Classes begin Monday, September 16  
Homecoming, Saturday, October 12  
Dad's Day, Saturday, November 2  
Thanksgiving Vacation begins  
Wednesday, November 27, noon  
Thanksgiving Vacation ends Monday,  
December 2, noon  
Pre-Registration Day, Saturday,  
December 14  
Christmas Vacation begins  
Friday, December 19, noon

1958

Christmas Vacation ends Monday,  
January 6, noon  
Graduate Record Examinations  
Friday-Saturday, January 10-11  
Classes end Friday, January 17, 6 p.m.  
Comprehensive Examination Reading  
Period, Friday-Wednesday, January  
17-22  
Comprehensive Examinations for  
Graduating Seniors, Thursday-  
Saturday, January 23-25  
Final Examinations Monday-Thursday,  
January 29-30  
First Semester ends Thursday,  
January 30, 1:30 p.m.

## SECOND SEMESTER

Registration Day, Monday, February 3  
Classes begin Tuesday, February 4  
Spring Vacation begins Friday, March  
28, noon  
Easter Sunday, April 6  
Spring Vacation ends Tuesday, April 8,  
noon  
Pre-Registration Day, Saturday,  
April 26  
May Day—Mother's Day, Saturday-  
Sunday, May 10-11  
Classes end Friday, May 23, 6 p.m.  
Comprehensive Examination Reading  
Period, Friday-Wednesday, May 23-28  
Comprehensive Examinations,  
Thursday-Saturday, May 29-31  
Final Examinations, Monday-Thursday,  
May 26-June 5  
Commencement, Monday, June 9

1957	1958
JULY	JANUARY
S M T W T F S	S M T W T F S
-- 1 -- 3 4 5 6	-- -- -- 1 2 3 4
7 8 9 10 11 12 13	5 6 7 8 9 10 11
14 15 16 17 18 19 20	12 13 14 15 16 17 18
21 22 23 24 25 26 27	19 20 21 22 23 24 25
28 29 30 31 -- -- --	26 27 28 29 30 31 --
AUGUST	FEBRUARY
S M T W T F S	S M T W T F S
-- -- -- 1 2 3	-- -- -- -- -- 1
4 5 6 7 8 9 10	2 3 4 5 6 7 8
11 12 13 14 15 16 17	9 10 11 12 13 14 15
18 19 20 21 22 23 24	16 17 18 19 20 21 22
25 26 27 28 29 30 31	23 24 25 26 27 28 --
-- -- -- -- -- --	-- -- -- -- -- --
SEPTEMBER	MARCH
S M T W T F S	S M T W T F S
1 2 3 4 5 6 7	-- -- -- -- -- 1
8 9 10 11 12 13 14	2 3 4 5 6 7 8
15 16 17 18 19 20 21	9 10 11 12 13 14 15
22 23 24 25 26 27 28	16 17 18 19 20 21 22
29 30 -- -- -- --	23 24 25 26 27 28 29
-- -- -- -- -- --	30 31 -- -- -- --
OCTOBER	APRIL
S M T W T F S	S M T W T F S
-- -- 1 2 3 4 5	-- -- 1 2 3 4 5
6 7 8 9 10 11 12	6 7 8 9 10 11 12
13 14 15 16 17 18 19	13 14 15 16 17 18 19
20 21 22 23 24 25 26	20 21 22 23 24 25 26
27 28 29 30 31 -- --	27 28 29 30 -- -- --
-- -- -- -- -- --	-- -- -- -- -- --
NOVEMBER	MAY
S M T W T F S	S M T W T F S
-- -- -- 1 2	-- -- -- 1 2 3
3 4 5 6 7 8 9	4 5 6 7 8 9 10
10 11 12 13 14 15 16	11 12 13 14 15 16 17
17 18 19 20 21 22 23	18 19 20 21 22 23 24
24 25 26 27 28 29 30	25 26 27 28 29 30 31
-- -- -- -- -- --	-- -- -- -- -- --
DECEMBER	JUNE
S M T W T F S	S M T W T F S
1 2 3 4 5 6 7	1 2 3 4 5 6 7
8 9 10 11 12 13 14	8 9 10 11 12 13 14
15 16 17 18 19 20 21	15 16 17 18 19 20 21
22 23 24 25 26 27 28	22 23 24 25 26 27 28
29 30 31 -- -- --	29 30 -- -- -- --
-- -- -- -- -- --	-- -- -- -- -- --



PHYSICAL EDUCATION CENTER

## GENERAL INFORMATION

Denison University is an independently-administered and financed, co-educational college of liberal arts and sciences. It is situated in Granville, Ohio, 27 miles east of Columbus, the state capital. Founded in 1831 as the Granville Literary and Theological Institution, Denison University was incorporated under its present name in 1854. Since its founding Denison has cooperated with the Board of Education of the American Baptist Convention, but its teaching has always been nonsectarian, and it accepts students without regard to race or creed.

Denison is accredited by the North Central Association of Colleges and Secondary Schools as a degree-granting institution. It has been certified by the Association since 1913, when it appeared on the Association's first published list of degree-granting institutions. Denison is also recognized and approved by the Association of American Universities, the Ohio College Association, the Ohio State Department of Education, the American Association of University Professors, and the American Chemical Society. The Denison Conservatory is a Liberal Arts College member of the National Association of Schools of Music.

## A CHRISTIAN EDUCATION

By heritage and choice, Denison is a Christian college maintaining and developing Christian principles and ideals. Through the chapel services and the several religious organizations on the campus, students and faculty actively share religious life. Academically,

Denison provides instruction in religion through two basic courses in General Education required of every candidate for a degree and through regular course offerings in the Departments of Religion and Philosophy on an elective basis.

The religious program centers largely in the weekly worship service in Swasey Chapel under the direction of the Dean of the Chapel. These services are non-denominational but seek to encourage the student to think through his own problems from the Christian standpoint.

The Christian Emphasis Program, which coordinates most of the student religious activities at Denison, includes vesper services; special programs for the discussion of ethical and religious problems; the community social service program; the Young Women's Christian Association activities; Bonds of Friendship, which is the annual campus-wide campaign for funds for foreign students at Denison and for other philanthropies; and deputation teams which visit churches of many faiths in the vicinity of Granville.

Two three-day periods, one each semester, are organized as Special Christian Emphasis Days during which students and faculty participate in special chapel programs and class discussions with guest speakers.

## A PERSONALIZED EDUCATION

In and out of the classroom, a Denison education is a personalized education which fosters intelligent and responsible living. Recognizing that the personal achievement and personal culture of our college students become the ultimate standards of our nation, Denison has planned its total educational program accordingly. In the classroom the student receives a varied and valuable acquaintance with significant aspects of our American heritage and with current developments in our culture. In the extraclass program he has special opportunity to broaden this acquaintance and to pursue personal interests which will give him the enduring rewards that intellectual living can give.

The William Howard Doane Library assumes great importance in the education and cultural life at Denison. Rich in its resources of books, periodicals, pamphlets, government publications, microfilm, and recordings, the library is the workshop of the student. In order that the library may best serve the total needs of the student, *both the reserve book section and the general book collection in the stacks are open to every student.* To have a student use libraries and their resources effectively during and after his college years, the emphasis

of the reference service and the formal instruction by the library staff (which begins with the freshman research paper) is on methods of finding information and investigating subjects. The carrels and seminar rooms offer special facilities for independent study and research. The Browsing Room and the Denisoniana Room encourage the formation of good reading habits.

The enriching experiences offered by the fine arts are made available to every Denison student. Numerous art exhibits are held each year, and student work is frequently shown. An Art Treasure Collection has been assembled, and valuable tapestries, paintings, vases, and other *objets d'art* are on display. The Denison Art Loan Collection makes available framed pictures, etchings, and prints by world-famous artists to students for use in their rooms for a semester at a time.

Opportunities to hear and to participate in the production of good music are provided by concerts by the Denison choral groups; recitals by students, faculty, and guest artists; special programs by the men's glee club, the Denison Orchestra, and the Denison Band. Musicians of national reputation are brought to the campus in concerts arranged by the Granville Festival Association in cooperation with the college.

Convocations with speakers of note are held each week. These programs are scheduled for Mondays at 11 o'clock except when the speaker or artist is to be shared with the public in a lecture or concert or dance recital. On those occasions the program is shifted to an evening at 8:15.

Dramatic productions of professional excellence are presented by the four theatres—Children's, Studio, University, and Summer—operated at Denison. In recent years more than 50,000 persons have attended the thirty or more different dramatic productions offered annually. Some of the plays produced recently are *The Birds*, *Henry IV*, *Peer Gynt*, *The Silver Whistle*, *Knickerbocker Holiday*, *Androcles and the Lion*, *This Way to the Tomb*, *Street Scene*, and several original plays written by Denison students.

Public speaking and debating have long been important cultural activities at Denison. In addition to the varsity debating and intramural speaking contests for men, Denison has intercollegiate forensics for women and for freshmen. In radio, the campus studios channel the regular weekly programs originating on the campus to station WCLT in Newark, an affiliate of the standard network of Ohio. The Denison Campus Government Association operates its own student-owned radio station, WDUB, which is a member of the Intercollegiate Broadcasting System.

Every Denison student is urged to take an extraclass interest in one or more academic areas. To encourage personal contributions by each student, *departmental clubs exist in almost every field of study*. Regardless of his area of study, a student who is interested in writing, editing, or otherwise assisting in the production of a publication has an opportunity to join the staffs of *The Denisonian*, the weekly newspaper; *Exile*, the literary magazine; *Kampus*, the annual humor magazine; and the *Adytum*, the yearbook.

The Denison Scientific Association, established in 1887, issues the *Journal of the Scientific Laboratories* and meets biweekly for the presentation of scientific papers by faculty and students. The *Journal*, founded by Professor Clarence Luther Herrick in 1885, has an international reputation.

The Denison Society of Arts and Letters provides regular programs of literary and cultural papers and discussions open to the student body and the public.

The Denison University Research Foundation, founded in 1942 by a gift from an anonymous donor, fosters and encourages constructive research in the arts and sciences by awarding Research Scholarships to men and women of promise. The Foundation also sponsors substantial prizes at Commencement for the best thesis submitted by a candidate for a degree with honors in each of the fields of the creative arts, the humanities, the sciences, and the social studies.

## CAMPUS AND BUILDINGS

The campus of 350 acres centers on College Hill, a horseshoe-shaped ridge which rises to the north of the business district in Granville. On the crest of the hill are the academic buildings, the library, the chapel, and the hospital. North of the main college buildings are the spacious playing fields for athletic and recreational purposes and Fraternity Circle. Near the foot of College Hill and adjacent to the Lower Campus are grouped the attractive chapter houses comprising Sorority Circle.

SWASEY CHAPEL with its stately tower dominates the Denison campus and serves as a landmark to travelers approaching Granville. The building, dedicated in 1924, was named in honor of the donor, Dr. Ambrose Swasey. The chimes in the chapel tower are a memorial to his wife, Lavinia Marston Swasey. The original organ was completely rebuilt and doubled in size in 1954. Swasey Observatory, built in 1910, stands directly east of the Chapel.

THE WILLIAM HOWARD DOANE LIBRARY stands at the head of the quadrangle of academic buildings. The present structure, built in 1937, replaced the original building presented by Dr. William Howard Doane in 1878. The newer building was the gift of his daughters, Mrs. George W. Doane and Miss Ida F. Doane.

DOANE ADMINISTRATION BUILDING, containing the college offices and four classrooms, was the gift of Dr. Doane in 1894.

LIFE SCIENCE BUILDING, erected in 1941, is used by the departments of biological sciences, psychology, philosophy, and family life. This building was the gift of Miss Ida Frances Doane.

BARNEY SCIENCE HALL is used by the departments of geology and geography, mathematics, and physics. It was the gift of Eugene J. Barney as a memorial to Eliam E. Barney, his father, and was erected in 1905.

TALBOT HALL is a classroom and office building for the departments of economics, English, government, history, modern languages, religion, and sociology. The building, erected in 1871, was named in honor of Samson Talbot, fifth president of Denison.

CHEMISTRY COTTAGE, near Life Science Building, completes the academic buildings on the quadrangle.

CLEVELAND HALL, on the south slope of College Hill near the Lower Campus, is the Women's gymnasium. Given by friends of the college living in Cleveland, it served as the Men's gymnasium from the time it was built in 1903 until 1950.

DOANE ART BUILDING, on the Lower Campus, was erected in 1905 by a gift from Dr. W. H. Doane to serve as the gymnasium for women. In 1953 it was remodeled for its present use. It contains studios, classrooms, and an art gallery for the display of exhibit material.

THEATRE ARTS BUILDING, erected in 1956 on College Street on the Lower Campus, contains the workshop for building scenery, making costumes, space for storing both scenery and costumes, provides classrooms with movable partitions for ready conversion into an Experimental Theatre seating 200 persons, and library facilities including also the Ethel R. Outland Theatre Collection.

This building is the first new unit of the much larger Fine Arts Center that eventually will provide a large air-conditioned theatre seating 600 for the Denison Summer Theatre and University Theatre plays, music classrooms and studios, and a recital hall.



Comprising the Lower Campus group are the Conservatory of Music, Recital Hall, Shepardson Commons, and five residence halls. Four are used for freshmen women; the fifth is a cooperative house for women other than freshmen.

On College Hill east of the chapel are Whisler Memorial Hospital, built in 1929 as a memorial to Helen Arnett Whisler; Colwell House; and five residence halls for upperclass women.

DEEDS FIELD, which was named in honor of the donor, Colonel Edward A. Deeds of the Class of 1897, utilizes the natural amphitheatre on the slope to the north of the chapel. The football field and stadium were built in 1922.

PHYSICAL EDUCATION CENTER, located just east of Deeds Field, was completed in 1950. Primarily the center of physical education for men, it serves a variety of college and community uses. It provides Denison with a completely modern gymnasium seating 3,000 spectators. In addition to the basketball court, the spacious Center contains physical education classrooms and offices; drill space for the Air Force ROTC; a field house for indoor practice of football, track, and baseball; and various small courts. Adding greatly to the recreational and cultural facilities of Licking County, the Center provides adequate space for all major events such as lectures, concerts, commencement exercises, and other assemblies. Two additional wings to the building are planned, one to accommodate the swimming pool, and the other, the women's gymnasium.

On the north campus at the center of the women's athletic grounds is Lamson Lodge, named for the donor, Julius G. Lamson. It serves as a shelter house and recreation classroom.

## RESIDENCE HALLS

Denison recognizes the experience of group living as an important part of a college education. To that end the University operates residence and dining halls for all women students and for all freshman men. Most of the rooms accommodate two students each, but many of the upperclass women live in suites for three or four students. Upperclass men live in one of nine fraternity chapter houses, in three college-operated residence halls as accommodations are desired, or in approved private dwellings in the village.

Women students are accommodated in two groups of residence halls, senior, junior, and sophomore women living on College Hill at the eastern end of the ridge and freshmen on the Lower Campus. On

College Hill are Shaw Hall, named in honor of the late President and Mrs. Avery Albert Shaw; Beaver Hall, named in honor of Mary Thresher Beaver; Sawyer Hall, named for Charles Sawyer, an early benefactor of higher education for women; Deeds Hall, built in 1953 and named for Edith Walton Deeds, wife of Colonel Edward A. Deeds, Class of 1897; and Gilpatrick House. These residence halls accommodate more than 400 women, all of whom take their meals in Colwell House.

On the Lower Campus freshman women live in Stone Hall, named in honor of the Reverend Marsena Stone, a former professor; King Hall, named in honor of a former trustee; Burton Hall, named in honor of the founders of an early school for girls in Granville; and Parsons Hall. Meals for the 225 students residing in these halls are served in Shepardson Commons.

Freshman men occupy Curtis Hall, a large residence hall accommodating 190 students. Dining facilities in Curtis West are adequate to care for residents in both wings and in nearby Smith Hall and others not taking their meals at fraternity houses. Curtis West, erected in 1940 as a memorial to Lanson Stage Curtis of the Class of 1896, was made possible by a gift from his mother, Mrs. Annetta R. Jewell. The East wing was added in 1946. Smith Hall, built in 1953, was named for Franklin G. Smith, honorary chairman of the Denison Board of Trustees.

Monomoy Place, a cooperative honor residence for upperclass women, is located on the Lower Campus at Mulberry Street. Here 21 students share the household duties including the preparation of meals. The cooperative nature of the undertaking reduces living costs materially.

## ATHLETICS

The athletic program at Denison is an integral part of the physical education curriculum. Each student is encouraged to participate as fully in intramural and intercollegiate athletics as his academic program permits. The University provides professional coaching, excellent training facilities, and athletic equipment and supplies. It carefully supervises all intramural and intercollegiate sports.

Denison engages in intercollegiate football, soccer, basketball, track, baseball, tennis, golf, and lacrosse. In its intercollegiate program the University seeks to compete with institutions of similar size and similar educational and athletic standards. Denison is a member in good standing of the National Collegiate Athletic Association and the Ohio Athletic Conference.

The athletic policy of Denison University is controlled in its entirety by the faculty. The department of physical education operates within the academic budget, and all receipts from and expenditures for intercollegiate contests are handled by the University controller.

## HEALTH

Denison recognizes its responsibility for the health and well-being of its students by providing a complete medical service, adequate health instruction, and the efficient administration of dining halls and residence halls. The University director of student health services, assisted by two other physicians and four registered nurses, maintains in Whisler Memorial Hospital an up-to-date clinic where prompt medical attention is available. The physician may be consulted for examination and treatment at specified hours, and a trained nurse is on duty at all times.

That students may develop habits of good health, instruction in health is provided in the department of physical education. Programs of study and training are designed to meet hygienic and recreational needs.

In administering the residence halls and dining halls, the University takes every safeguard to protect the health of its students. Trained dietitians supervise the choice, preparation, and serving of food.

## STUDENT GOVERNMENT AND SOCIAL LIFE

Denison students are regular members on policy-making groups of the University's administrative bodies, such as the committees on admissions, curriculum, activities, and operate their own student organizations with a great degree of freedom. The principal elective student officers direct the activities of the Denison Campus Government Association and serve as the student representatives on the Student-Faculty Council. This council recommends to both the Student Senate and the Faculty improvements in the regulation of campus activities.

The Denison Campus Government Association functions through the Senate, the Women's Council, the Judicial Councils, and the Boards of Control of Debate, Dramatics, Music, Publications, Religious Activities, and Women's Athletics.

In 1953 the Women's Council affiliated with the Intercollegiate Association of Women Students. Later in the same year the DCGA joined the United States National Student Association.

In each college-operated residence hall a House Council, made up of elected students, directs the social administration in cooperation with the Residence Halls Counselor or head resident, who are members of the University staff.

The social life of the campus centers in the Student Union which is the gathering place of the student body between classes and in the evenings. The All-College social committee plans various special activities which foster the community spirit in Denison's social life.

Responsibility for upholding the Denison code of social self-government rests with each student. Under this system the student can enjoy freedom within the limits of good taste and conduct; however, the effective functioning of the code requires that he accept fully the responsibility that goes with it. Attendance at Denison is a privilege, not a right. Any student who indicates his unwillingness or inability to accept this responsibility may be asked to withdraw at any time. The policies and regulations governing student life are printed in the *D Book*, student handbook.

The Inter-Fraternity Council and the Panhellenic Council work cooperatively through the nine fraternities and eight sororities in developing an adequate social program. All of these national Greek-letter organizations maintain chapter houses on or near the campus, generously sharing their facilities with the students, faculty, and townspeople.

Fraternities with chapters at Denison are Sigma Chi, Beta Theta Pi, Phi Gamma Delta, Kappa Sigma, Phi Delta Theta, American Commons Club, Lambda Chi Alpha, Sigma Alpha Epsilon, and Delta Upsilon.

Sororities with chapters at Denison are Chi Omega, Kappa Alpha Theta, Delta Delta Delta, Kappa Kappa Gamma, Alpha Phi, Alpha Omicron Pi, Delta Gamma, and Pi Beta Phi.

## AIR FORCE ROTC PROGRAM

In 1952 the United States Air Force established an extension unit of the Air Force Reserve Officer Training Corps on the campus of Denison University for the purpose of training selected students in certain functions normally performed by reserve officers in the Air Force.

Students who successfully complete all requirements are commissioned as second lieutenants in the United States Air Force Reserve upon graduation from the University.

Freshmen and sophomores between the ages of 14 and 22 years, physically qualified, and acceptable to the Professor of Air Science (PAS), are eligible for the basic course.

Mere enrollment in AFROTC does not involve an obligation for active military service, nor does such enrollment automatically give the student draft-deferment status. Draft deferment is granted to AFROTC cadets who establish and maintain standards acceptable to the PAS and who agree (a) to enroll in and complete the advanced course, if accepted therefor; (b) to attend one summer camp of four weeks' duration, normally between the first year advanced and the second year advanced course; (c) upon completion of the course, to accept a commission, if tendered; and (d) to serve on active duty for a period of not less than three years after receipt of the commission.

The Air Force blue uniform is lent without cost to the student and is worn during the drill periods and at such other times as may be specified by the PAS. The student is responsible for the proper care of the uniform. Textbooks and other instructional material are supplied without cost by the University or the Air Force.

Advanced course students are paid at the rate of approximately \$27 a month during the academic year. Pay during summer camp is at the rate of \$75 a month plus travel allowances, food, quarters, uniforms, medical care, and government insurance en route to and from—and while at—summer camp.

All cadets are eligible for participation in the AFROTC Marching Band, the Kadence Kadets (precision drill team), and the AFROTC Rifle Team. Outstanding advanced course students are eligible for selection as members of the Air Honor Society.

For data pertaining to credits and course content see Department of Air Science in this catalog. For additional information, write to the Department of Air Science, Denison University.

# SUMMARY OF ENROLLMENT BY STATES AND FOREIGN COUNTRIES

FIRST SEMESTER, 1956-57

States and Territories	Men	Women	Total
California -----	5	3	8
Connecticut -----	13	11	24
Delaware -----	3	0	3
District of Columbia -----	0	3	3
Florida -----	4	3	7
Hawaii -----	3	0	3
Illinois -----	79	79	158
Indiana -----	13	25	38
Iowa -----	1	0	1
Kansas -----	1	0	1
Kentucky -----	8	11	19
Louisiana -----	0	1	1
Maine -----	2	0	2
Maryland -----	5	8	13
Massachusetts -----	16	3	19
Michigan -----	56	41	97
Minnesota -----	1	1	2
Missouri -----	3	5	8
Nebraska -----	1	0	1
New Hampshire -----	1	3	4
New Jersey -----	12	23	35
New York -----	51	50	101
North Carolina -----	1	0	1
Ohio -----	318	272	590
Oregon -----	1	1	2
Pennsylvania -----	63	78	141
Tennessee -----	1	2	3
Texas -----	2	1	3
Vermont -----	0	1	1
Virginia -----	1	2	3
Washington -----	0	1	1
West Virginia -----	8	11	19
Wisconsin -----	5	15	20
Total United States -----	678	654	1,332
Arabia (an American) -----	0	1	1
Australia (New South Wales) -----	1	0	1
Canada (Ontario) -----	0	1	1
France (an American) -----	1	0	1
Free China (Formosa) -----	1	0	1
Greece -----	3	0	3
Japan -----	0	1	1
Korea -----	1	0	1
Nicaragua (one American) -----	4	0	4
Turkey -----	0	1	1
Grand Total -----	689	658	1,347
Total States and Territories Represented -----			33
Total Foreign Countries Represented -----			10

## SUMMARY OF STUDENT ENROLLMENT

## FIRST SEMESTER, 1956-57

	Men	Women	Total
Post graduate -----	1	0	1
Seniors -----	139	132	271
Juniors -----	144	132	276
Sophomores -----	172	200	372
Freshmen -----	229	194	423
Non-degree special -----	4	0	4
	<hr/>	<hr/>	<hr/>
Total -----	689	658	1,347
Part-time (college rank) -----	5	8	13
	<hr/>	<hr/>	<hr/>
Grand Total -----	694	666	1,360
Conservatory of Music (applied music students)			
College rank -----	18	58	76
Non-college -----	0	10	10
	<hr/>	<hr/>	<hr/>
Music Total -----	18	68	86



EDITH WALTON DEEDS HALL

## ADMISSION

The Admissions Committee weighs carefully all factors which bear upon the applicant's likelihood of success at Denison and makes its selections accordingly. An applicant may be admitted either as a freshman or with advanced standing.

In evaluating an applicant, the Admissions Committee takes into consideration the quality of his academic record, aptitude test scores, recommendations, school and community activities, and the applicant's personal statement of his reason for attending college. In addition, a personal interview is highly desirable, although not compulsory. This interview may be held either at Denison or at a center near the applicant's home.

### PRELIMINARY APPLICATION

Any student who desires to enroll at Denison should submit a preliminary application by requesting form or sending coupon in the *Denison Bulletin* (viewbook number). Upon receipt of the preliminary application, the Admissions Committee places the applicant on the mailing list, and sends him a formal application during October of the year prior to entrance. If a prospective student submits his preliminary application after October of the year prior to entrance, he is sent a formal application immediately. An early date of application is desirable.



## GENERAL ADMISSION REQUIREMENTS

Every applicant—freshman or transfer—is expected to meet the following minimum requirements:

**GRADUATION AND COLLEGE CERTIFICATION** from an accredited high school or preparatory school with at least 15 acceptable credit units. Although no special combination of subjects is required, a recommended program would include these courses: English, four units; Mathematics, including Algebra and Plane Geometry, two units; Foreign Language, two units in the same language; History, one unit; Laboratory Science, one unit. (At least two of the five remaining units should be in the areas named or in related subjects.)

**RECOMMENDATION BY THE MINISTER** or other religious leader (as prescribed in the formal application blank).

**PERSONAL STATISTICS** and listing of school, church, and community activities (as prescribed in the formal application blank).

**STATEMENT OF PURPOSE** in attending college (as prescribed in the formal application blank).

**HEALTH REPORT** from applicant's physician, to be filed on the form furnished by the college after the applicant has been accepted.

**FEES AND DEPOSITS.** An applicant must pay these fees and deposits:

(1) A nonreturnable fee of \$10 to accompany the formal application.

(2) A registration deposit of \$25, and

(3) A room reservation deposit of \$25 except for a veteran or man who enters as a transfer student with sophomore, junior, or senior standing or a local commuting student and who does not desire dormitory accommodations.

These deposits are to be paid by applicant accepted for admission to Denison on or before the College Entrance Examination Board Candidates' Reply Date (May 22, 1957). Both deposits are refundable until June 1 upon written notice of withdrawal of the application (addressed to the Office of Admissions). An applicant accepted after June 1 is allowed two weeks from the date of acceptance during which he may apply for the refund of deposits under the foregoing provisions.

### SPECIAL REQUIREMENTS FOR FRESHMEN

In addition to meeting the foregoing General Admission Requirements, a student who desires to enter as a freshman is expected to submit this information:

(a) Personal appraisal by secondary school principal, headmaster, or guidance officer.

(b) The Scholastic Aptitude Test of the College Entrance Examination Board. This test is required of all applicants. It may be taken in December, January, February or March of the senior year in high school. If extenuating circumstances prevent the applicant from taking this test, he must make other arrangements with the Director of Admissions.

### ACCEPTANCE OF FRESHMEN

A freshman applicant is admitted on the basis of grades for seven semesters of secondary school work, and the completion of the foregoing requirements. Special consideration for acceptance on the basis of six semesters is given top-ranking applicants who take the December series of College Board Examinations (as described in the formal application blank). Otherwise the Admissions Committee makes its first choices by April 15 from those whose applications are then complete. Applicants will be considered after April 15 for such openings as then remain in the quota set for the freshman class.

### SPECIAL REQUIREMENTS FOR TRANSFERS

In addition to meeting the foregoing General Admission Requirements, a student who is eligible for advanced standing is expected to submit the following:

(a) A complete, official transcript of his college record showing honorable dismissal from the college previously attended.

(b) A recommendation from a dean of the college last attended.

### ACCEPTANCE OF TRANSFERS

A transfer student who wishes to enter Denison as a sophomore will be considered for acceptance only after his complete first year record is available. A transfer student who wishes to enter Denison as a junior may be accepted provisionally during his sophomore year when his record for three semesters of college work is available. A student accepted for admission with advanced standing must complete at least one year in residence as a full-time student to be eligible for a Denison degree.

A student accepted for admission with advanced standing will be allowed credit without examination for liberal arts subjects taken at a college accredited by the North Central Association of Colleges and Secondary Schools or an accrediting body of similar rank. Class standing at Denison is based on the number and quality of credits accepted for transfer. A graduate of an accredited junior college will be classified as a junior on admission, and will be required to earn at least 64 semester-hours of credit (a normal program for two years) at Denison in fulfilling graduation requirements. A transfer student is required to earn at least a C average at Denison to qualify for a degree. Any requirements for graduation at Denison not satisfactorily completed at the college previously attended must be taken in normal sequence.

The Admissions Committee expects transfer students to be in good academic and disciplinary standing at the college previously attended. Semester-hours of credit—but not actual grades—are transferable for all liberal arts and science courses similar to those offered at Denison. Courses bearing below C grades are not accepted for transfer.

## STUDENT SERVICES

Denison's counseling program functions to help the student make the best possible adjustment to college life. In the classroom, faculty members and students share the learning process in a way possible only in a small college. Outside the classroom, every student has access to a complete counseling service. A program of orientation for new students is provided during the week preceding registration.

### COUNSELING STAFF

The counseling staff includes the deans of students; the director of testing and vocational services; clinical psychologists; the university physician; specialists in family life and religion; selected faculty counselors; departmental chairmen; head residents; a residence halls counselor for upperclass women; and junior and senior advisers.

A freshman is assigned to a selected faculty counselor who works with him through his first two years or until he chooses a major field. When he makes the choice of a major field, the student is assigned to a faculty counselor in the department in which he has chosen to major. A faculty counselor helps the student plan an academic program consistent with the aims and obligations of a liberal arts education, and a program which is in keeping with the student's abilities, aptitudes, and aspirations.

In the residence halls junior and senior advisers, a selected group of upperclass students, aid the freshmen in learning the many new phases of life in college. The head resident in each residence hall also counsels with students. The head residents are members of the staff of the Dean of Men and the Dean of Women.

### OFFICE OF STUDENT PERSONNEL SERVICES

The Office of Student Personnel Services has been established so that students may turn to it in finding and using the various resources of the University. It is staffed by the deans of students (dean of women and dean of men), the clinical psychologists, and the director of testing and vocational services. In addition to providing specialized counseling for individuals the Office of Student Personnel Services coordinates many student activities. It keeps for each student a cumulative personnel record; it aids each student to discover his own interests and aptitudes so that he may wisely plan his entire college program; and it helps him to secure the position for which he prepares.

## TESTING AND VOCATIONAL SERVICES

Testing and Vocational Services is an integral part of the Office of Student Personnel Services. This is the University testing center, the center for all student employment on campus, and the center for the following guidance services: (1) helping the student evaluate his interests and capabilities; (2) helping him obtain campus and summer employment; (3) helping him explore permanent employment opportunities through counseling, the maintenance of a library of employment opportunities, and interviews with business and industrial representatives; and (4) acquainting him with scholarships, fellowships, and assistantships offered by graduate and professional schools. This office also provides a reading improvement program to students on all college levels who desire to improve their reading skills.

## DENISON BUSINESS COUNCIL

In order to relate the classroom program more closely to vocational performance, Denison has invited a number of outstanding businesses to affiliate themselves with the university as members of the Denison Business Council. These firms are Owens-Corning Fiberglas Corporation and Park National Bank, Newark, Ohio; Columbus Coated Fabrics Corporation, Battelle Memorial Institute, the Ohio Bell Telephone Company, Corrugated Container Company of Columbus, The F. and R. Lazarus Company, and Suburban Motor Freight, Columbus, Ohio; Warner and Swasey, Thompson Products Incorporated, and Standard Oil Company (Ohio), Cleveland, Ohio; Union Central Life Insurance Company, and General Electric Company, Cincinnati, Ohio; National Cash Register Company, and General Motors Corporation, Dayton, Ohio; Armco Steel Corporation, Middletown, Ohio; United Air Lines, and Sears Roebuck and Company, Chicago, Illinois.

The Denison Business Council makes available to the students the counsel of policy-making officers of the several companies, gives opportunity for students to compete for summer employment with one of the companies, provides on request classroom speakers on special topics and case study materials from company files, and encourages company visitations for firsthand observation of various business operations.

### TEACHER PLACEMENT

The Department of Education maintains a separate appointment service to assist graduates in seeking first teaching positions and in transferring to better positions upon evidence of successful experience.

### SELECTIVE SERVICE AND VETERAN COUNSELING

Those students eligible for Selective Service are counseled by the Military Adviser. Veterans are advised by the Dean of Men. Training at Denison is approved by the Veterans' Administration under Public Law 550.

## REGISTRATION AND CLASSIFICATION OF STUDENTS

Registration, the formal enrollment in the college, is an agreement on the part of the student to abide by all college regulations. The procedure includes (a) preparation of a detailed schedule of classes, (b) deposit of a copy of the class schedule with the Registrar, and (c) payment of the prescribed fees to the Cashier. Every student must complete his registration at the time scheduled. Failure to do so will be considered *late registration*, entailing payment of a special fee of \$5. For *late pre-registration* a special fee of \$5 shall also be charged. *No student will be admitted to any class later than the second week of the semester.*

**NORMAL REGISTRATION** is set at 16 semester-hours of credit. To register for 17 or 18 semester-hours a student should be in good scholastic standing. This total should include the appropriate requirements in Physical Education. (See Plan of Study.) The normal academic load enables a student to meet the graduation requirements within eight semesters. A student who pays regular tuition charges is permitted to audit, without additional cost, one course a semester for which no credit may be claimed.

**REDUCED REGISTRATION** is recommended for a student who for any reason cannot carry a normal schedule satisfactorily. If reduced registration is advisable, a student may be required to carry a schedule of 12 to 14 hours of academic credit and be asked to devote an extra semester to fulfill the graduation requirements. Without special permission from the appropriate Dean of Students, 12 hours shall be minimum registration for any regular student. With special permission of the appropriate Dean of Students, a regular student may register for 10 or 11 semester-hours.

**EXCESS REGISTRATION** Upon petition to and approval by the Committee on Academic Status a student may take in excess of 18 credit hours per semester. The regular excess hour fee may be waived for a superior student upon recommendation by the student's adviser and approval by the Executive Committee.

**PARTIAL REGISTRATION** enables a student, with the permission of the appropriate Dean of Students, to take eight or fewer academic hours a semester.

**SPECIAL REGISTRATION** is open to adults living within commuting distance of Granville and to certain foreign students who wish to

audit courses of special interest to them and who are not interested in a degree. Auditors are eligible for partial registration and are not required to follow a normal sequence of studies. If credit is desired, appropriate credentials must be submitted to the Registrar's Office.

CHANGES IN REGISTRATION are not ordinarily permitted. If a change is made, a fee of \$1 will be charged, unless remitted by the Registrar for satisfactory reason.

WITHDRAWAL FROM COURSES must be made by formal report to the Registrar signed by the student's adviser. *A student who withdraws from a course without official permission will receive a grade of F (failure) on his permanent record.* (See Scholastic Requirements under Plan of Study for grades recorded upon withdrawal from courses and from the university.)

WITHDRAWAL FROM THE UNIVERSITY is official only upon written report to the appropriate Dean of Students. This report must be signed by the student's parents or guardian. To receive an honorable separation a student who must leave before the close of the semester should consult the Dean of Women or the Dean of Men. No courses are entered on the permanent record of a student who withdraws from college during a semester.

*The college may, whenever in its judgment such action is for the best interest either of the student or of the student body, dismiss or refuse to enroll any student.*

In the event of major illness or other emergency the student may petition the Executive Committee for special consideration.

## CLASSIFICATION

The classification of students is determined by the amount of academic credit earned. The following requirements must be met:

**FRESHMAN STANDING:** A student is classed as a freshman unless he is deficient in more than one unit of preparatory work.

**SOPHOMORE STANDING:** A student must have 26 semester-hours of credit including required courses in English and in Physical Education. (Any entrance deficiencies must have been removed.)

**JUNIOR STANDING:** A student must have 60 semester-hours of credit.

**SENIOR STANDING:** A student must have 94 semester-hours of credit.



**ELIGIBILITY RULE:** A regularly enrolled student registered on a full-time basis (normally 12 semester-hours or more) shall be eligible to participate in all college and intercollegiate activities. The student whose scholastic record falls below a 2.0 average shall participate only after consultation with his counselor, the director of the activity, and the appropriate Dean of Students, regarding the extent of his participation in extracurricular activities.

By rule of the Ohio Conference, freshmen have been eligible to participate in intercollegiate athletics since September, 1951.

### RECOGNITION OF CREDIT EARNED ELSEWHERE

**RESIDENT TRANSFER CREDIT** will be honored only if taken at an accredited college or university and only if the student submits an official transcript of credit prior to or at the time of the next succeeding registration at Denison.

Grades received at another institution shall not be computed into the Denison quality-point average, or be used to remove Denison quality-point deficiencies except by petition to and favorable action by the Committee on Academic Status. Denison will not accept below C grade work on transfer from another institution.

**EXTENSION OR CORRESPONDENCE STUDY:** Courses taken by correspondence are not accepted for credit at Denison. In exceptional cases a petition may be submitted to the Committee on Academic Status, which has the power to approve.

## EXPENSES

### COST EACH SEMESTER

Tuition and Fee	\$375.00
Board	\$220.00
Room	\$115-\$130.00

Beginning in September, 1957, Tuition and Fee will be \$450.

In view of the economic uncertainty of the times, the University reserves the right to make changes in costs at the beginning of any semester by publication of the new rates *for tuition and fee three months in advance, for board and room one month in advance of their effective date.*

THE TUITION AND FEE of \$375 permits a student to take from nine to 18 semester-hours of credit. An additional charge of \$20 is made for each registered hour in excess of 18 hours. Any student desiring to take in excess of 18 semester-hours may petition the Committee on Academic Status for permission. *A superior student may take in excess of 18 semester-hours without additional charge for tuition if the student's petition receives approval of the Executive Committee of the Faculty.* Full-time students receive in addition a variety of services and entertainment. The general fee covers library, course, laboratory (except deposit for breakage), and health service. The health service includes hospital care up to three days a semester (exclusive of medical, surgical costs such as X-ray, services of special nurses and consultants, doctor or nurse's calls to a student's room, supply of special medicines, or the use of special appliances). *For hospitalization in excess of three days a charge of \$7 a day is made.* The tuition and fee also supports the Denison Campus Government Association and certain other student organizations. Its payment admits the student to plays, concerts, lectures, intercollegiate athletic contests, and covers a subscription to the weekly newspaper, the literary and humor magazines, and the yearbook.

An entering student who is judged by the English Department to be deficient in English as indicated by his Cooperative Test score and theme written during the opening week of college must pay an additional sum of \$25 a semester for extra instruction.

A part-time student pays tuition at the rate of \$23 for each semester-hour of credit. If he desires hospital and student activity privileges, he must make the necessary arrangements with the Cashier.

AUDITING classes is a privilege that may be granted to any student. A regularly-enrolled full-time student may be permitted to audit one course in a given semester without additional fee and without academic credit. In all other cases, an auditor shall pay a sum equal to half the tuition paid by a part-time student.

ROOM RENT is \$115 a semester for each student if two or more room together. The price of a single room is \$130 a semester. *No room is rented for a shorter period than one semester.* Accommodations are available for a few transfer women to live in a cooperative house. Address inquiries to the Office of Admissions.

The cost of any damage to the furniture or the room beyond ordinary wear will be assessed to the occupant.

MEALS are served in the college dining halls throughout the academic year except during vacations. The charge for board is \$220 a semester.

BOOKS AND SUPPLIES cost approximately \$30 to \$40 a semester.

CONSERVATORY OF MUSIC FEES are required of a student taking *private lessons in Voice, Organ, Piano, Violin, Violoncello, Harp, or Wind Instruments*, unless the student is majoring in music. On the basis of one private lesson a week including the necessary practice time, the charge is \$20 a semester-hour. (If the private lessons raise the registration to an excess of 18 semester-hours, the student is subject to the fee for excess registration.)

Any student paying regular tuition may attend *classes* (not private lessons) in *voice or instrumental music* without extra charge.

A noncollegiate student pays \$40 a semester for one lesson a week and \$75 for two lessons. If he takes courses other than private lessons, the student pays the part-time tuition fee of \$23 a semester-hour of credit.

## PAYMENT OF BILLS

BILLS ARE PAYABLE to Denison University in the Controller's office. To help develop in the student a sense of responsibility and a greater appreciation of the educational opportunity, the University has a policy of collecting semester bills from the student rather than from his parents. Semester bills are due on Registration Day but may be paid in advance. All other bills are due within 10 days from the date presented and are subject to a service charge of \$1 when overdue.

A student is ineligible to attend classes unless his bills are paid when due. *A student will be denied an honorable separation, a transfer of credits, or a diploma until all college bills are paid in full.* On request, receipted bills are issued when the statement is returned. DEFERMENT of one-half of the net bill for the first semester is allowed until November 15, and for the second semester until April 10, providing the request is made to the Cashier on or before Registration Day.

## REFUNDS

CANCELLATION OF RESERVATIONS should be made by women prior to May 1 and by men prior to May 15 or December 15 for the succeeding semester in order to release dormitory space and to permit others to be admitted for registration. Both the registration deposit of \$25 and the room deposit of \$25 made during the admissions procedure are refundable if the time limit is observed. A student involuntarily called to military service after May 15 or December 15 but prior to the beginning of the next semester shall receive a refund of these deposits.

A freshman man planning to reside elsewhere than in a college residence hall the succeeding year may, on the pre-registration form in the second semester, request the refund of his room deposit.

Any student living in a college residence hall in the senior year will have the deposit credited on the statement issued for the second semester's expenses.

*A request to the Registrar for a transcript of credits shall not be regarded as a cancellation of a room reservation or considered a notice of withdrawal from the college unless accompanied by a specific statement to that effect.*

A student, including veterans enrolled under Public Law 550, withdrawing from college for any reason will be charged 20 per cent of the tuition and fee for each week enrolled, but the amount charged shall not exceed full tuition and fee. The refund on the general fee is contingent upon the return of the student activity card to the Cashier. A proportionate refund will be made on board, but no refund will be made on room rent. No courses are entered on the permanent record of a student who withdraws from college during a semester.

A student involuntarily entering military service shall be charged for board and room for the time enrolled. No charge for tuition shall be made unless credit for courses being taken is granted.





FRANKLIN G. SMITH HALL

## SCHOLARSHIPS AND GRANTS-IN-AID

Denison University recognizes promise and intellectual attainment of its students by awarding a number of honor scholarships, special scholarships, and grants-in-aid. These awards vary in value and are available to a limited number of entering students, to a larger number of students in residence, and to a limited number of graduates. Applications for all scholarships based on financial need must be made through the College Scholarship Service of the College Entrance Examination Board. Forms for such application may be obtained by addressing the Office of Admissions, Denison University, Granville, Ohio.

## HONOR SCHOLARSHIPS

Honor Scholarships are awarded without application by the recipient except in the case of Denison Tuition Scholarships, which are competitive, and Denison Founders' Scholarships.

**DENISON TUITION SCHOLARSHIPS.** Denison Tuition Scholarships of \$2,600 are awarded on a four-year full-tuition basis to high school seniors of high intellectual ability and strong moral character. These awards are made in eight equal amounts of \$325, payable at the beginning of each semester. Applicants must possess qualities of leadership as shown by their activities in preparatory school, church, and neighborhood groups. Applicants are required to take the Scholastic Aptitude Test (verbal and mathematical) of the College Entrance Examination Board, together with its Achievement Test in English and in two additional fields of the candidate's choice. Applicants may take the January or March series, preferably the former.

The applicants will be judged on the basis of the results of the tests and the accepted application for admission. Interviewing of applicants by college officials will be arranged either on the campus or in regional centers. *The award is for four years providing the recipient maintains a 3.25 grade average.* Probation for any cause automatically voids the scholarship and makes reapplication necessary when the probation is removed. Request to the Office of Admissions for application blank should be made prior to March 1.

**DENISON FOUNDERS' SCHOLARSHIPS.** Denison Founders' Scholarships of varying amounts are awarded to high school seniors with strong leadership activities, superior scholastic standing, and need for financial help to attend college. *The awards are for four years providing the recipient maintains a 2.75 grade average.* Probation for any cause automatically voids the scholarship and makes reapplication necessary when the probation is removed. Requests for the application should be made to the Office of Admissions.

#### THE DENISON UNIVERSITY RESEARCH FOUNDATION SCHOLARSHIPS

Denison University Research Foundation Scholarships varying from \$100 to \$750 are awarded annually near the close of the sophomore or junior year to men and women showing a genuine interest in research. Intellectual ability and qualities of leadership are taken into consideration in the selection of students for these awards which may be renewed annually for a period covering graduate study.

#### THE EBENEZER THRESHER FUND (\$10,000)

The income from this fund is divided equally among four outstanding men, one from each class, who achieve and maintain a high scholastic record, who show promise of usefulness, and who are of unquestionable moral character. Selection is made by the Faculty of the University upon recommendation of the Committee on Scholarships. The freshman recipient is chosen at the end of his first semester. The award is renewed each year, providing a 3.25 grade average is maintained.

#### THE MARY HARTWELL CATHERWOOD SCHOLARSHIP FUND (\$2,000)

The annual income from this sum is awarded by the Committee on Scholarships upon the recommendation of the chairman of the Department of English to a junior or senior student definitely planning a career in writing.

#### THE FRANCIS WAYLAND SHEPARDSON SCHOLARSHIP FUND (\$5,000)

The annual income from this sum is awarded by the Committee on Scholarships to students who have shown proficiency in courses in American History.

**THE CORA WHITCOMB SHEPARDSON SCHOLARSHIP FUND (\$5,000)**

The income from this sum is awarded by the Committee on Scholarships to students who have shown proficiency in courses in Art.

**THE WILLIS A. AND FRANCES W. CHAMBERLIN SCHOLARSHIP (\$1,500)**

The income from this fund is to be used to aid students of high scholarship majoring in the Humanities.

**THE JULIET BARKER SARETT SCHOLARSHIP FUND (\$10,000)**

This sum yields an income to be awarded to students who have shown general excellence in their academic work, particularly in English and Theatre Arts. Four scholarships, two in each subject, are awarded by the Committee on Scholarships at the end of the junior year upon recommendation by the chairman of the respective departments.

**THE WALTER LEROY FLORY SCHOLARSHIP FUND**

To qualify for aid from this fund a student shall (1) be a member of the junior class who may be expected to graduate with his class, and (2) be adjudged by the Committee on Scholarships to show promise of professional success and leadership.

**HONOR SCHOLARSHIPS IN MUSIC****THE ELIZA SMART SHEPARDSON SCHOLARSHIP FUND (\$2,500)**

The income from this sum is awarded by the Committee on Scholarships to worthy students enrolled in the Conservatory of Music.

**THE GERTRUDE CARHARTT BRELSFORD MEMORIAL FUND (\$2,000)**

The income from this sum is awarded to worthy students enrolled in the Conservatory of Music.

**THE PRESSER MUSIC FOUNDATION SCHOLARSHIPS**

The sum of \$250 is made available annually by the Presser Music Foundation to students planning to make their living in music. Selection of the students is made by the Committee on Scholarships on recommendation of the Faculty of the Denison Conservatory of Music.

**GRADUATE HONOR SCHOLARSHIPS****THE DENISON UNIVERSITY TUITION SCHOLARSHIP**

The Denison University Tuition Scholarship is one of the Ohio College Tuition Scholarships established by the trustees of the Ohio State University and is open to graduates of Denison for one year. Nominations for this scholarship are made by the President and the Dean of the College.



### RHODES SCHOLARSHIPS

The Cecil Rhodes Scholarships, tenable for three years at Oxford University, England, are open to men who have completed their sophomore year in an American college. These scholarships are made available annually on the combined basis of character, scholarship, athletics, and leadership in extracurricular activities. Men interested in competing for this national award should consult the Dean of the College.

### THE DENISON UNIVERSITY SCHOLARSHIP FOR THE UNIVERSITY OF CHICAGO LAW SCHOOL

This scholarship will be awarded upon recommendation of Denison University to a student in the graduating class for the study of law for the next academic year at the University of Chicago Law School, providing the applicant meets its requirements for admission. The scholarship provides full tuition for one year and is renewable, upon satisfactory completion of the year's work, for the last two years of the Law School course. Application is made through the Denison Office of Testing and Vocational Services.

### OTHER SCHOLARSHIPS

The Fulbright Scholarships of the United States Educational Exchange program, authorized by Public Law 584, the 79th Congress, known as the Fulbright Act, are designed to promote better understanding of the United States in other countries, and to increase mutual understanding between the people of the United States and the people of other countries. The Dean of Men submits the name of a worthy student.

The National Woodrow Wilson Fellowship program, the Danforth Foundation, and others are available to Denison University candidates for graduation. Application is made through the Office of Testing and Vocational Services at Denison.

## SPECIAL SCHOLARSHIPS

### THE BAPTIST SCHOLARSHIP FUND

Daughters and sons of Baptist ministers and missionaries receive a scholarship allowance of \$50 a semester as long as they maintain a 2.0 scholastic average. This aid is given in recognition of Denison's heritage from the Baptist denomination throughout the entire history of the college.

### THE LaVERNE NOYES SCHOLARSHIP FUND

Denison University shares in the income from the LaVerne Noyes Estate. The scholarships are restricted to needy students who are children or blood descendants of those who served in the Army or Navy of the United States in World War I.

**GRANVILLE CENTENNIAL SCHOLARSHIP**

The Granville Centennial Scholarship is a four-year award amounting to \$150 a year. A high ranking student in the graduating class of the Granville High School is selected by the University and the Superintendent of Schools in accordance with restrictions laid down by the Denison Board of Trustees. This scholarship was established in recognition of contributions made by residents of Granville to the Centennial Endowment Fund.

**GRANTS-IN-AID**

GRANTS-IN-AID should be sought only by those who need help in meeting the expenses of their college education. A number of grants-in-aid which require the recipient to complete a work assignment are available.

Grants-in-aid are awarded after a student has been admitted to Denison and remain in force for one year only, subject to renewal by special action of the Committee on Scholarships and Student Employment. (Renewals are announced on or about May 15.) The Committee may vary the amount of the grant as the need of the student fluctuates.

An applicant for a grant-in-aid must show evidence of academic worth. He must remain in good standing for the duration of his grant, and if for any reason he is placed on probation, financial assistance may be withdrawn.

The proper form for application may be obtained from the Chairman, Committee on Scholarships and Student Employment.

**GRANTS AND SCHOLARSHIPS FOR MEN AND WOMEN**

THE ELIZABETH S. EWART SCHOLARSHIP FUND (\$2,506)

THE CHARLES T. LEWIS SCHOLARSHIP FUND (\$5,000)

THE JOHN H. DOYLE SCHOLARSHIP FUND (\$2,500)

THE WELLS A. AND CYNTHIA ALDRICH CHAMBERLAIN SCHOLARSHIP (\$5,000)

THE G. O. GRISWOLD SCHOLARSHIP FUND (\$5,000)

THE DANIEL VAN VOORHIS SCHOLARSHIP FUND (\$500)

THE AMANDA SPERRY SCHOLARSHIP FUND (\$1,000)

THE HERBERT F. STILWELL SCHOLARSHIP FUND (30,000)

THE SAMUEL B. BRIERLY SCHOLARSHIP FUND (\$276,066)

THE CLASS OF 1913 SCHOLARSHIP FUND (\$1,000)

THE CLASS OF 1917 WAR MEMORIAL SCHOLARSHIP FUND (\$3,414)

THE CLASS OF 1929 SCHOLARSHIP FUND (\$6,750)

THE GEORGE H. SHORNEY SCHOLARSHIP FUND (\$7,500)  
THE CHARLES G. WATERS SCHOLARSHIP FUND (\$8,184)  
THE KATHERINE GEAR WIGHTMAN SCHOLARSHIP FUND (\$500)  
THE GEORGE M. ROUDEBUSH SCHOLARSHIP FUND (\$12,989)  
THE DAVID E. GREEN MEMORIAL SCHOLARSHIP FUND (\$3,337)  
THE MASUO S. AND KIYO HOSHIDE SCHOLARSHIP FUND (\$807)  
THE FREDERICK P. AND MARY T. BEAVER SCHOLARSHIP FUND (\$66,204)  
THE EDWARD TAYLOR CLISSOLD MEMORIAL SCHOLARSHIP FUND (\$3,349)  
THE DORA A. FORSYTHE SCHOLARSHIP FUND (\$9,738)  
THE BLANCHE LEMERT COPELAND SCHOLARSHIP FUND (\$21,942)  
THE LESLIE B. MOSS SCHOLARSHIP FUND (\$25,641)  
THE CHARLES GARDNER WATERS AND CLARA FERRIS WATERS SCHOLARSHIP FUND (\$30,036)  
THE MILLARD BRELSFORD MEMORIAL SCHOLARSHIP FUND (\$1,373)  
THE LAVERNE NOYES SCHOLARSHIP FUND (\$35,272)  
THE EMORY W. HUNT SCHOLARSHIP FUND (\$7,438)  
THE FRANK C. EWART MEMORIAL SCHOLARSHIP FUND (\$4,000)  
THE WELSH HILLS PRICES SCHOLARSHIP FUND (\$2,000)  
THE BLANCHE MCCOY-HUMPHREY SCHOLARSHIP FUND (\$2,500)

#### GRANTS AND SCHOLARSHIPS FOR MEN

THE DAVID AND JANE HARPSTER FUND (\$5,000)  
THE MARY ARNOLD STEVENS FUND (\$500)  
THE EUGENIO KINCAID LEONARD SCHOLARSHIP FUND (\$1,000)  
THE A. F. AND A. A. BOSTWICK SCHOLARSHIP FUND (\$1,000)  
THE HARRY THURSTON CRANE SCHOLARSHIP FUND (\$5,000)  
THE MARIA T. BARNEY SCHOLARSHIP FUND (\$11,000)  
THE JOHN H. HISLOP MEMORIAL SCHOLARSHIP FUND (\$25,000)

#### GRANTS AND SCHOLARSHIPS FOR WOMEN

THE J. W. KING SCHOLARSHIP FUND (\$12,000)  
THE MARTHA A. LUSE SCHOLARSHIP FUND (\$1,000)  
THE JAMES MCCLURG SCHOLARSHIP FUND (\$1,000)  
THE MARY MILLER SCHOLARSHIP FUND (\$8,282)  
THE CHARLES T. CHAPIN SCHOLARSHIP FUND (\$2,000)  
THE LIDE-SHEPARDSON-MARSH SCHOLARSHIP FUND (\$1,000)  
THE FLORA PRICE JONES SCHOLARSHIP FUND (\$1,000)  
THE IDA SAUNDERS FISHER SCHOLARSHIP FUND (\$2,000)  
THE AGNES WILSON WEAVER SCHOLARSHIP FUND (\$1,000)  
THE HARRY THURSTON CRANE SCHOLARSHIP FUND (\$5,000)  
THE HANNAH SNOW LEWIS SCHOLARSHIP FUND (\$16,000)  
THE MORTAR BOARD SCHOLARSHIP FUND (\$600)

### GRANTS AND SCHOLARSHIPS FOR PREMINISTERIAL STUDENTS

- THE MARY K. MONROE FUND (\$30,000)  
THE M. E. GRAY FUND (\$5,000)  
THE DAVID THATCHER FUND (\$1,500)  
THE JOSHUA AND GWENNIE JONES FUND (\$1,356)  
THE ABIGAIL T. HOUCK FUND (\$31,717)  
THE WILLIAM HOWARD DOANE SCHOLARSHIP FUND (\$10,000)  
THE CHARLES EDWIN BARKER SCHOLARSHIP FUND (\$1,000)

### FUNDS INCREASED OR ESTABLISHED

The following scholarship funds were increased during the fiscal year ending July 31, 1955:

#### THE EMORY W. HUNT SCHOLARSHIP FUND

A gift of \$100 during the year makes the total in this fund \$7,438.

#### THE MASUO S. AND KIYO HOSHIDE SCHOLARSHIP FUND

A gift of \$50 from Iku Matsumato makes the total in this fund \$807.

#### THE BLANCHE McCLOY-HUMPHREY SCHOLARSHIP FUND

This fund was established during the year by a bequest from Blanche McCoy-Humphrey of Wilmington, Ohio, to provide scholarships for worthy young people.

#### THE SAMUEL B. BRIERLY SCHOLARSHIP FUND

A gift of \$100 from the anonymous donors of the Brierly Fund and capital gains increased the total in this fund to \$276,066.

#### THE FREDERICK P. AND MARY T. BEAVER SCHOLARSHIP FUND

An addition of \$2,000 during the year makes the total in this fund \$66,204.

#### THE GEORGE M. ROUDEBUSH SCHOLARSHIP FUND

An addition of \$2,550 during the year brings the total of this fund to \$12,989.

### STUDENT EMPLOYMENT

In making student employment available to a limited number of worthy students who need to earn a part of their expenses in college, Denison University maintains a tradition established by its founding fathers. Application for student employment should be made to the

Secretary, Committee on Scholarships and Student Employment. Work assignments are made through the Office of Testing and Vocational Services. An applicant must give evidence of ability to do work of value to the college, such as laboratory assistance, dormitory assistance, dining hall service, stenographic service, or labor on the campus. He must maintain the work assignment without jeopardizing his scholastic standing.

## LOAN FUNDS AVAILABLE

Loans are available to worthy students who have completed at least one semester of residence. A loan may be used only to defray expenses specifically pertaining to a college education. The applicant is required to furnish information regarding the purpose of the loan, any outstanding obligations to the college or to other sources, the amount of financial aid received from his parents or guardian, the total sum earned annually toward his college expenses, and the amount of life insurance carried. The promissory note must be made and co-signed by a parent or guardian, *not* by a fellow student or a faculty member. The application blank should be obtained from the Dean of Men or the Dean of Women.

Approximately \$20,000 for student loans is available from the following established funds:

The Fletcher O. Marsh Fund  
The Edward LeGrande Husted Fund  
The Ida S. Fisher Loan Fund  
The C. L. Williams Alumni Loan Fund  
The Class of 1927 Loan Fund  
The Asher King Mather Loan Fund  
The Edward Gear Ewart Loan Fund  
The Charles F. Burke Memorial Loan Fund  
The Avery A. Shaw Memorial Loan Fund  
The W. C. Woodyard Loan Fund  
The Burton Memorial Loan Fund  
The Joseph M. and Amy W. Collins Loan Fund  
The Miller-Exman Loan Fund  
The Millard Brelsford Memorial Loan Fund  
The Barrett Loan Fund

ADDITIONAL SOURCES, such as foundations, fraternities, and sororities, make scholarship and loan funds available to Denison students. Information may be obtained by addressing the Cashier of the University or the Secretary of the Denison Board of Trustees, Granville, Ohio.

## ACADEMIC HONORS AND PRIZES

### GRADUATION WITH HONORS

Graduation with Honors is the distinction accorded a student who earns a superior rating on his honors project and in his comprehensive examinations. His diploma is inscribed with the words *Graduation with Departmental Honors*. (See Privileges Open to Superior Students under Plan of Study.)

### DEAN'S LIST OF ANNUAL HONORS

A student earning a cumulative grade-point average of 3.0, provided no grade in his year's record is below C, is placed on the Dean's List. Those attaining this honor are given public recognition at an annual convocation. Candidates for graduation who have qualified for the Dean's List throughout four years are given special recognition in the form of a red and white shoulder cord worn at commencement.

### HONORARY SOCIETIES

The Phi Beta Kappa Society, founded in 1776 to recognize and encourage scholarly pursuits, established the Theta of Ohio chapter at Denison in 1911. Annually new members are elected from students in the junior or senior classes ranking highest in scholarship.

The Phi Society, an organization for encouraging high scholarship among freshmen, was founded by the Theta of Ohio chapter of Phi Beta Kappa in 1926. A student is required to earn at least 112 grade-points during the freshman year to be considered for this honor.

Other honorary scholastic fraternities, represented at Denison are Mortar Board and Omicron Delta Kappa, senior organizations for women and men, respectively.

Other organizations with chapters of national honorary societies at Denison include Alpha Epsilon Delta, premedical; Blue Key, junior men's service; Delta Phi Alpha, German language; Eta Sigma Phi, classical language; Kappa Delta Pi, educational; Phi Alpha Theta, history; Pi Delta Epsilon, publications; Pi Delta Phi, French language; Pi Sigma Alpha, political science; Psi Chi, psychology; Sigma Delta Pi, Spanish language; and Tau Kappa Alpha, forensic.

Honorary organizations, local in nature, are Air Honor Society, military; Crossed Keys, junior women's service; D Association, ath-

letic; Dance Club, modern dance; Women's Music Honorary; Franco-Calliopean Society, creative writing; Mu Sigma, men's music; Rho Beta Chi, radio broadcasting; and Masquers and University Players, theatre honoraries.

### PRIZES AND AWARDS

Recognizing that true culture is largely the result of individual effort, Denison University offers a number of prizes to reward students for special excellence. Students are eligible to compete for the following prizes: (See also Honor Scholarships.)

#### THE LEWIS LITERARY PRIZE CONTEST

Four prizes, totaling \$100, are awarded to the four men ranking the highest in the annual contest for excellence in public speaking. The prizes were originally presented to the Franklin and Calliopean Literary Societies by Charles T. Lewis, former president of the Board of Trustees. They were continued by his son, Howard Lewis of the Class of 1900, and now by his grandsons, Melvin P. Lewis and Howard Lewis, Jr.

#### THE SAMSON TALBOT BIBLE READING CONTEST

This is an endowed fund yielding a first prize of \$25 and a second prize of \$12.50 for the best reading of the Scriptures. This annual contest is open to seniors and juniors.

#### DENISON UNIVERSITY RESEARCH FOUNDATION PRIZES

The Research Foundation annually offers four prizes of \$100 for the best theses submitted by candidates for degrees with honors. One prize is awarded in each of the four fields — science, social studies, creative arts, and humanities—providing a project of distinct merit is presented and providing the student has not been the recipient of another substantial prize in the same year. These awards are made by a committee of three in each field, the committees to be appointed annually by the chairman of the Denison University Research Foundation.

#### THE WOODLAND CHEMISTRY PRIZES

A first and second prize, amounting to \$150 and \$50, are awarded annually to two junior students in regular standing who prepare, under the direction of the chairman of the Department of Chemistry, the best theses on some phase of chemistry in its relationship to industrial or everyday life. These prizes were established as a memorial to William Henry Woodland in a bequest by his son, J. Ernest Woodland of the Class of 1891.

**THE FRESHMAN CHEMISTRY PRIZE**

This medal is offered annually by the Denison Chemical Society to the student making the best record in Chemistry 111-112.

**THE JOHN L. GILPATRICK SCHOLARSHIP AWARD (\$1,117)**

This sum yields an income to be awarded annually to a member of the senior class recommended by the faculty of the Department of Mathematics for excellence in that subject.

**THE DANIEL SHEPARDSON MEMORIAL SCHOLARSHIP FUND (\$2,500)**

The income from this sum is awarded to the junior woman showing promise of outstanding leadership in the field of religious activity. Selection is made by the alumnae group administering the fund.

**THE RAY SANFORD STOUT ENGLISH PRIZES**

Two prizes, \$20 and \$10, are awarded annually for excellence in short story writing. Manuscripts should be submitted to the chairman of the Department of English. These awards were established by Henry S. Stout of the Class of 1915 in memory of his mother.

**THE LELAND J. GORDON ALUMNI PRIZE IN ECONOMICS**

A prize of \$100 is awarded annually to the student enrolled in Economics 414 who prepares, under the direction of the chairman of the Department of Economics, the best original thesis dealing with a significant problem in economics. The papers are judged by persons outside of the Department. For the endowment of this prize, former students and friends of Professor Gordon have contributed \$1,800.

**CHI OMEGA SOCIAL STUDIES PRIZE**

A prize of \$25 is awarded to the senior woman with the highest scholastic standing concentrating in a designated field of social studies, including a major in economics, government, history, sociology, or a transdepartmental major. The prize is offered annually by the Delta Gamma chapter of Chi Omega.

**THE ANNIE M. MacNEILL POETRY PRIZES**

Two endowed prizes are awarded: (1) To the student with high standing in English who is judged by the Department of English the most proficient in the writing of poetry, and (2) To the junior or senior who ranks highest in the course devoted to the study of Victorian poets. An annual income from a fund of \$1,000 is used for each prize.

**THE SIGMA DELTA PI MEDALS**

Three official awards of the American Association of Teachers of Spanish and Portuguese are offered by the Denison chapter of



Sigma Delta Pi: (1) To the two students making the best records in Elementary Spanish, and (2) To the two students making the best record in Second-year Spanish.

#### THE LOUIS KUSSMAUL FRIENDSHIP AWARD

This annual award of \$75 is made to the student who has done the most to foster friendly relations between the town and the college. Selection is made by the President of the Greater Granville Association, Inc., and the President of Denison University. This award was established by Harry W. Amos, Class of 1899, and is maintained by his bequest of \$1,800.

#### THE LAURA F. PLATTS SCHOLARSHIP AWARD

This annual award of \$50 is made to a senior woman who gives promise of service to mankind. Selection is based on her college record.

#### THE EBAUGH AWARD

This award, to encourage postgraduate study, entitles the outstanding senior majoring in chemistry to a membership in the American Chemical Society. The award was established in memory of William Clarence Ebaugh, a former professor, by a graduate of the Department of Chemistry.

#### THE CLARA HUDSON KING MEMORIAL AWARD

This award is given to the outstanding senior majoring in the Department of Art and is presented during the Annual Spring Art Exhibit. The award was established by Horace King, professor of Art, as a memorial to his mother.

#### THE CHARLES EDWARD SILBERNAGEL MEMORIAL PRIZE

This annual prize of \$125 is awarded to the senior premedical student who, in the judgment of the adviser to premedical students, has shown the greatest aptitude in premedical subjects. The recipient must have been admitted to the first year of a Class A Medical School. The prize was established by Mrs. C. E. Silbernagel and her son, Dr. Wynne Silbernagel of the Class of 1926, in memory of the husband and father.

#### THE DONALD BLISS ATWELL MEMORIAL PRIZE

This annual prize of \$25 is given for some outstanding effort on the part of a student in the field of Social Ethics. This prize was established by friends and members of the family as a memorial to Donald B. Atwell of the Class of 1917 in recognition of his record of service to youth as a YMCA secretary both in this country and abroad.

**THE DELTA PHI ALPHA BOOK PRIZE**

A book prize is awarded to the student in the Department of Modern Languages whose work in the German language has been outstanding. The book is the gift of Delta Phi Alpha, German language honorary fraternity.

**THE AMERICAN INSTITUTE OF CHEMISTS MEDAL**

A bronze medal is given by the Ohio Chapter of the American Institute of Chemists to be awarded to an outstanding chemistry major who has signified his intention of entering the field of chemistry professionally. The winner is selected by the faculty of the Department of Chemistry.

**THE MERCK AND COMPANY AWARDS IN CHEMISTRY**

Two copies of the *Merck Index*, a reference work covering principally biological and medicinal chemistry, are presented to the Department to be awarded to one senior and one junior for recognition of excellent work and to encourage an interest in chemistry. Recipients are selected by the departmental faculty.

**THE PHI BETA KAPPA SCHOLARSHIP AWARDS**

In 1954 the Theta of Ohio chapter of Phi Beta Kappa at Denison University established three special scholarship awards. Two rotating scholarship cups are awarded each semester to the fraternity and to the sorority having the highest academic standing in all subjects. An annual award of books valued at \$15 is made to the highest ranking sophomore student.

**THE TILESTON F. CHAMBERS ENGLISH PRIZE**

A book prize is awarded annually to the senior major in the Department of English whose comprehensive examination on American and English writers is judged the most interestingly written. This prize, originally offered by T. F. Chambers, former member of the Board of Trustees, is now maintained by his son, David of the Class of 1923.

**THE CLASS OF 1954 SCHOLASTIC TROPHY (Military)**

This trophy is awarded to the graduating advanced AFROTC cadet with the highest over-all cumulative four-year grade-point average.

**OTHER AFROTC AWARDS**

AFROTC cadets who are outstanding in the basic and advanced courses are eligible for consideration for various military awards of merit and medals by the Chicago Tribune, Consolidated Vultee Aircraft Corporation, Republic Aviation Corporation, Reserve Officers' Association, and Sons of the American Revolution.





WILLIAM HOWARD DOANE LIBRARY

## THE PLAN OF STUDY

*Denison offers a plan of study which gives a student the general knowledge desirable for intelligent living and the specialized knowledge needed for vocational achievement. This plan allows the student a wide range of choice under the guidance of faculty and administrative personnel. (See Student Personnel Services.) The degree earned may be Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, or Bachelor of Music.*

## DEGREE IN ARTS OR SCIENCE

A student who satisfies the following requirements will receive the degree of *Bachelor of Arts*, except that a student who majors in one of the natural sciences (Astronomy, Biological Sciences, Chemistry, Geography, Geology, Mathematics, Physics, or Psychology) may elect to receive the degree of *Bachelor of Science*. To obtain either of these degrees the student must satisfy the following conditions:

*He must earn 124 semester-hours of credit including the Courses in General Education, the Field of Concentration, Physical Education, and Education, plus Convocation and Chapel credit, or its equivalent, depending upon class standing.*

His work must conform to certain scholastic requirements. These include a specified *grade-point average* in courses, the passing of a *comprehensive examination* in his field of concentration, and satis-

factory scores on the *Graduate Record Examination*. He must show proficiency in English.

A student who meets these requirements with an outstanding record is eligible to become a candidate for the degree of *Bachelor of Arts with Departmental Honors* or the degree of *Bachelor of Science with Departmental Honors*.

Detailed requirements in all of these areas are explained in the following sections:

### SPECIFIED REQUIREMENTS

**COURSES IN GENERAL EDUCATION** (See General Education) must be completed by every student. These basic course requirements will be adjusted for an upperclass student transferring to Denison. In some instances, courses he has previously taken will be accepted as the equivalent of the Denison requirements.

**THE FIELD OF CONCENTRATION** enables the student to specialize in a particular field of learning, either in one department or in two or more departments.

**A CANDIDATE FOR THE BACHELOR OF ARTS DEGREE** may concentrate in any of the following fields: Area Studies (The Americas, France, or Germany—Transdepartmental), Art, Astronomy, Biological Sciences (Botany or Zoology), Business (see Economics), Chemistry, Child Development and Family Life (transdepartmental), Classical Languages, Community Recreation (transdepartmental), Economics, English (in Literature or in Writing), Family and Community Participation (transdepartmental), Geography, Geology, Government, History, Mathematics, Modern Languages (French, German, or Spanish), Music (see also Bachelor of Music degree and Bachelor of Music degree in music education), Philosophy, Personnel Administration (see Psychology), Physics, Psychology, Religion, Social Studies (transdepartmental), Sociology, Speech, and Theatre Arts.

**A CANDIDATE FOR THE BACHELOR OF SCIENCE DEGREE** may concentrate in any of the following fields: Astronomy, Biological Sciences (Botany or Zoology), Chemistry, Geology, Mathematics, Physics, and Psychology.

A student who concentrates (or majors) in one department must successfully complete from 24 to 36 semester-hours of work with at least a C average in the department chosen. If the student earns credit in a given department in excess of 36 semester-hours, the excess must be in addition to his normal graduation requirement. Exceptions in certain departments permit the major to earn more than 36 credits. (See explanations under Departmental Courses.)

A student who wishes to concentrate in a general field, rather than in one department, shall take a minimum of 36 semester-hours with at least a C average from two or three closely related departments, with not less than 15 semester-hours, ordinarily in sequence, in one of these departments. (See also the Transdepartmental Majors.) A student who wishes to avail himself of the privilege of concentrating in a general area must make his choice not later than the beginning of the junior year. Ordinarily the choice of a major in a single department is also made not later than the beginning of the junior year.

Each department shall appoint an Adviser for each student whose field of concentration is within that department. An appropriate faculty representative who will outline a suitable sequence of courses will be appointed for each student whose field of concentration crosses departmental lines. Such appointments will be made by the Dean of the College in consultation with the chairmen of the departments concerned.

Each student is urged to make definite choice of a field of concentration before entering his junior year. If a student decides to change his *field of concentration* during his junior year, he may be required to take an extra semester to meet graduation requirements. *Any student who changes his field of concentration during his senior year will ordinarily be required to take at least one extra semester to meet graduation requirements.*

PHYSICAL EDUCATION of one credit-hour is required each semester in the freshman and sophomore years except for those students who elect the AFROTC program. A student who successfully completes the first two years (basic program) of AFROTC is required to enroll for only one year of Physical Education, which may be taken in either the freshman or the sophomore year. Upon successful completion of the first two years (basic program) of AFROTC, a student who chooses to take only one year of Physical Education will be granted an additional two hours' credit toward graduation. *Any student who is excused from the Physical Education requirement for reasons of health must earn an equivalent amount of credit in other courses.* (For credit in military service see Physical Education under Departmental Courses.)

CONVOCATION AND CHAPEL ATTENDANCE are recognized at the rate of one-half credit-hour for each semester of weekly Convocation attendance and one-half credit-hour for each semester of weekly Chapel attendance, providing the record shows the student has been present for 75 per cent of the programs or services. *Any student who does not accumulate such credit in any semester must earn for graduation an equivalent amount of credit in elective courses.*

ELECTIVE COURSES of study may complete the total number of semester-hours of credit to satisfy the graduation requirements. Both the student and his adviser shall strive constantly to choose the courses that will tend to develop a well-rounded and balanced personality. Lack of acquaintance with a subject or a field constitutes a strong reason for undertaking its study.

## BACHELOR OF SCIENCE IN EDUCATION

A student who satisfies the prescribed requirements will receive the degree of *Bachelor of Science in Education*.

The field of concentration shall be Education or Physical Education.

The student who majors in Education shall normally meet the same requirements as stated above for students who major in other departments. (See under Degree in Arts or Science.) He shall complete from 27 to 36 semester-hours of credit in Education with at least a C average.

## SECONDARY SCHOOL TEACHING

A teaching certificate that will permit a student to teach in grades seven through twelve is issued to any qualified student providing he meets the requirements for a degree at Denison, the requirements of the Department of Education of Ohio and of the State in which he plans to teach, and achieves a satisfactory rating on a psychological test and on tests in English, handwriting, vocabulary, and speech.

In Ohio, as in most states, a student usually earns certification in two different teaching areas. Certification in at least two is desirable to facilitate placement. One of these teaching areas will be the area in which the student majors for graduation. In addition to the courses required for the teaching areas, each prospective teacher must take 18 semester-hours of credit in Education. The State Department of Education in Ohio prescribes Education 213, 217, 420, a course in Methods of Teaching (either in a teaching area or in Education 326) and Practice Teaching.

A student interested in teaching should consult the Department of Education as early as possible. Early planning will allow him to meet the requirements for certification in any state in which he may wish to teach.

## DEGREES IN MUSIC

A student who desires to earn any of the following degrees in Music should make this decision known, if possible, when he is admitted to Denison, and certainly not later than the end of the freshman year.

### BACHELOR OF MUSIC

The regular undergraduate plan of study extending through four academic years leads to the *Bachelor of Music degree* if the student satisfies the following requirements:

**SPECIFIED REQUIREMENTS** including proficiency in English, and required Physical Education. (See Scholastic Requirements below.)

**FIELD OF CONCENTRATION** requires 30 semester-hours of credit of all students in Fundamental Musicianship, Harmony, Advanced Musicianship, History of Music, and Form and Analysis. (See Department of Music.)

**MAJOR IN APPLIED MUSIC** requires (in addition to English, Physical Education, and the 30 semester-hours in the Field of Concentration), the following:

1. Ten semester-hours of Counterpoint, Composition, or additional music courses.
2. Forty-eight hours in Applied Music. (See Music Curriculum.)
3. Electives in other academic subjects of 26 hours to complete the required total of 124 semester-hours plus chapel or convocation credit or its equivalent.
4. A recital in the field of the major is required.

*General Education course requirements are waived because of the greater concentration in music; however, the student is advised to distribute his electives among the general education courses. (See Courses in General Education.)*

### BACHELOR OF ARTS WITH MUSIC MAJOR

**REQUIRED COURSES** for a Bachelor of Arts degree with a Music major include Music 111-112, 121-122, 201, 202, 211-212, 221-222, 311-312, and 10 semester-hours in Applied Music. The performance of a graduating recital or the composition of a work of major proportions



such as a Sonata or String Quartet is required. A student may complete the requirements for the degree from other academic departments.

A student planning to teach in the public schools is required to take Music 303-304 and may include Instrumental class instruction in the subject he plans to teach. Courses in Education and in Methods are considered academic subjects in computing total semester-hours of credit.

### BACHELOR OF MUSIC (MUSIC EDUCATION)

The regular undergraduate plan in preparation for public school music teaching extends through the four academic years and leads to the degree of *Bachelor of Music (music education)* and the Ohio Provisional Special Certificate (Music) if the student satisfies the following requirements:

#### SPECIFIED REQUIREMENTS include

- A. MUSIC AND MUSIC EDUCATION (68 hours)
  - 1. Music Education Methods, 8 hours (Education 315, 316, 409, 410)
  - 2. Instrument and Voice Classes, 6 hours (Music 141, 142, 151, 152, 161, 162)
  - 3. Music Courses, 10 hours (Music 201-202; 303-304; 305, 306)
  - 4. Music Theory, 24 hours (Music 111-112; 211-212; 121-122; 221-222; 311-312)
  - 5. Applied Music, 16 hours (two hours each semester throughout the four years)
  - 6. Music Ensembles, 4 hours (Music 103, 104, 203, 204)
- B. EDUCATION (15 hours)  
(Education 213, 217, 415-416, 420)
- C. LIBERAL ARTS AND ELECTIVES (33 hours)
  - 1. Required Courses, 9 hours (General Education course 11-12, Psychology 211)
  - 2. Suggested Courses, 6 hours (General Education course 21-22, or History 221-222, or Government and History 221 or 222)
  - 3. Science and/or Mathematics, 6 hours
  - 4. Electives, 12 hours
- D. PHYSICAL EDUCATION (4 hours)
- E. CONVOCATION (4 hours) and CHAPEL (4 hours)

*The comprehensive examination of this degree will be divided between music and music education. Piano proficiency requirements must be met at the time of the comprehensive examination.*

## DIPLOMA IN PERFORMANCE

A DIPLOMA IN APPLIED MUSIC is granted to the student who fulfills the requirements as outlined for a degree in music and upon recommendation of the Conservatory of Music faculty presents a public recital in his senior year.

## SCHOLASTIC REQUIREMENTS

PROFICIENCY IN ENGLISH is required for graduation. A student who is judged by the Department of English to be deficient in written expression or in English achievement on the Cooperative Test taken during the opening days of college must enroll in a 5-hour section of General Education course 11 for three (3) credits and must pay an additional fee of \$25 for the semester. (This enrollment will, however, count as a 5-hour course in his total class schedule.)

A student whose grade in General Education course 11 is below C, or who is reported by two or more members of the faculty as deficient in English Composition, must take English 115. If he earns a grade below C in English 115, he must repeat English 115 without credit until he earns a grade of C or better.

THE GRADE-POINT SYSTEM in force at Denison is as follows:

- A (*Excellent*) 4 points for each credit-hour.
- B (*Good*) 3 points for each credit-hour.
- C (*Fair*) 2 points for each credit-hour.
- D (*Passing*) 1 point for each credit-hour.
- F (*Failure*) 0 points for each credit-hour.
- I (*Incomplete*)
- WF (*Withdrawn Failing*)
- WP (*Withdrawn Passing*)

*Incomplete* is recorded only upon recommendation of the instructor and approval of the appropriate Dean of Students in cases of illness or other emergencies. The student will be granted an extension of time to complete the course but in no case later than the middle of the next semester in residence.

No grade will be recorded if a student receives permission to withdraw from a course before the end of the second week of classes.

*Withdrawn Failing* or *Withdrawn Passing* is recorded when a student officially withdraws from a course during the third, fourth, or fifth week of a semester without incurring an academic penalty.

Thereafter, a WF or WP shall count as a Failure. However, if a student withdraws from the University, no courses are entered on his permanent record.

**ACADEMIC PROBATION** is recorded for a student whose cumulative grade-point average is less than 2.0 at the end of any semester. His probation will be continued until his cumulative grade-point average is 2.0 or above. While on academic probation, he may be permitted to enroll in succeeding semesters for a limited schedule to be determined by his Adviser with the approval of the Committee on Academic Status.

**JUNIOR STANDING** for a student on academic probation at end of his sophomore year shall be obtained only through petition to and favorable action by the Committee on Academic Status.

**ACADEMIC SUSPENSION** results if a student fails to earn a C average while on academic probation. However, if a student's grade-point average is less than 2.0 for the fall semester and he has been on academic probation for that semester, he may petition the Committee on Academic Status for permission to enroll for the spring semester. If during this semester, he does not reduce his point deficiency by one-half, he will be ineligible to return in the fall.

Eligibility for re-enrollment after suspension is by application to the appropriate Dean of Students and with the approval of the Committee on Academic Status providing the student improves his record while attending some other accredited college or university for at least a summer session, quarter, or semester.

**GRADUATION.** To be eligible for graduation a student must have a cumulative grade-point average of at least 2.0. This means that his entire cumulative record, including courses passed, failed, repeated, left incomplete, or taken at some other college or university, must average at least 2.0.

**THE GRADUATE RECORD EXAMINATION**, as part of the series of nationally used achievement tests in General Education, is required of every student in the senior year. The test scores, which are interpreted to the student, give valuable information as to his standing with reference to students in several hundred colleges and universities throughout the country, and in comparison with his Denison classmates. *The scores are required for admission to most graduate and professional schools, and are increasingly requested by industrial and commercial firms considering students for employment.*

A senior whose scores on the Graduate Record Examination fall in the lower percentiles may expect his total record at Denison to be carefully considered.

Any senior who fails to appear for the Graduate Record Examination, unless excused by reason of illness or other emergency, will forfeit all credit for the semester in which the examination is offered.

THE COMPREHENSIVE EXAMINATION is used to measure the ability of a student to correlate his knowledge effectively. Toward the end of his senior year, a student shall be examined on his command of the facts and principles in his field of concentration and on his ability to use this knowledge in new situations. At the discretion of the department or departments concerned, a part of the comprehensive examination may take the form of a recital, thesis, or project. *The comprehensive examination must be passed in its entirety if the student is to be graduated.*

The comprehensive examination will be arranged by the student's Adviser in cooperation with the other members of the department. The comprehensive examinations of transdepartmental majors will be arranged by the student's Adviser and such members of the departments involved as the Dean of the College in cooperation with the departmental chairmen shall designate.

## PRIVILEGES OPEN TO SUPERIOR STUDENTS

A superior student is urged to make the most of the opportunities Denison offers. When recommended to the Committee on Academic Status by his Adviser or the departmental chairman as qualified to undertake extra courses, he may be permitted to enroll for a course load in excess of 18 hours a semester without the payment of additional tuition.

Denison also offers the superior student opportunity to pursue Directed Study or Individual Work for Departmental Honors in his area of special interest. A superior student is defined as one whose record during the three semesters preceding his application for Directed Study or Individual Work for Honors shows at least a 3.0 grade-point average with at least 3.4 in the Field of Concentration. The chairman of a department is privileged to recommend for Directed Study or Individual Work for Honors a student who has not met these requirements.

DIRECTED STUDY in the junior year is open in most fields of concentration to superior students. In order to engage in directed study, a student must apply to his instructor for permission to pursue a sub-

ject of particular interest not already treated extensively in a regular course. On written approval of the instructor and the Dean of the College the student may register for from three to six hours of credit.

**GRADUATION WITH DEPARTMENTAL HONORS** is granted to a senior who fulfills certain requirements. When recommended by his academic Adviser and approved by the Curriculum Committee, the student investigates a selected topic in his field of concentration. If his work is of high quality, he will be granted six credits toward graduation. If in addition to receiving an honors rating on his project, he passes his comprehensive examination with a superior rating, he will be graduated with departmental honors. (Application for graduation with honors should be made to the Dean of the College.)

**WASHINGTON SEMESTER PLAN** is a means of introducing superior students from a limited number of colleges to the source materials and governmental institutions at Washington, D. C. An agreement for this purpose exists between Denison and the American University in Washington, D. C. Under this plan select students from Denison spend the first semester of their junior year (or other semester by special arrangement) at the School of Social Sciences and Public Affairs of the American University, receiving credit toward a degree from Denison.

This study includes three regular courses at the School of Social Sciences and Public Affairs of the American University, a seminar, and a directed, independent investigation on a subject of particular interest to the student. Under interinstitutional contract those participating in this plan continue to pay their tuition and room rent at Denison. While in Washington they meet their expenses for travel, meals, and incidentals directly. (Application for the Washington Semester should be made to the Chairman of the Department of Government but the plan is open to students interested in other major fields.)

**STUDENT EXCHANGE** arrangements for a Denison student, usually for one semester, are in effect with Hampton Institute, Howard University, and Fisk University.

**MERRILL-PALMER SCHOOL**, Detroit, Michigan, offers an opportunity for a limited number of superior Denison students interested in work with young children to take the first semester of the senior year in residence there. (Application should be made to the chairman of the department in which the student is majoring or to the Dean of the College.)

## COMBINED ARTS-PROFESSIONAL COURSES

Combined arts-professional courses enable the Denison student to obtain a degree in *absentia* if he has good reason to shorten the normal time required for a professional degree. Under certain conditions, Denison awards the bachelor's degree upon the successful completion of the first year in a recognized school of engineering, law, or medicine. To qualify for this privilege, a student must successfully complete the specified requirements for graduation at Denison with a total credit of *96 semester-hours, at the graduating rate of two or more points for each hour*. He must also successfully complete all the specified requirements for admission to a school of engineering, law, or medicine acceptable to the Denison faculty.

On this basis, a student may earn a bachelor's degree from Denison and a degree in engineering in five years; a bachelor's degree from Denison and a degree in law in six years; a bachelor's degree from Denison and a medical degree in seven years.

A student should recognize, however, that under present conditions of admission to professional schools, particularly medical schools, a candidate who has earned a bachelor's degree has a decided advantage, and that admission without a bachelor's degree is granted only to applicants of outstanding record.

## COOPERATIVE ARRANGEMENT WITH THE UNIVERSITY OF CHICAGO

Students in certain fields may follow a continuing program leading to the bachelor's degree from Denison and the master's degree from the University of Chicago in a normal academic program of five years. In this program, a student spends his first three years at Denison and the last two at the University of Chicago. During his three years at Denison the student must complete all the specified requirements for graduation except that he need not take more than four semester courses in his field of concentration and may complete his major requirements in his first year at the University of Chicago. If he follows this plan, he will take his Denison comprehensive examination at the end of his fourth year. Upon satisfactory completion of his first year at the University of Chicago the student can normally expect to receive his bachelor's degree from Denison; and, upon satisfactory completion of his second year, the master's degree from the University of Chicago. (Any student interested in this plan should consult the chairman of the department in which he wishes to do graduate work.)

### COOPERATIVE ARRANGEMENT IN FORESTRY

Denison University offers a program of forestry in cooperation with the School of Forestry of Duke University. Upon successful completion of a 5-year coordinated course of study, a student will hold the Bachelor of Science degree from Denison University and the professional degree of Master of Forestry from the Duke School of Forestry.

A student electing to pursue this curriculum spends the first three years in residence at Denison University and the last two years of his program at the Duke School of Forestry.

A candidate for the forestry program should indicate to the Director of Admissions of Denison University that he wishes to apply for the Liberal Arts-Forestry Curriculum. Admission to Denison is granted under the same conditions as for other curricula. At the end of the first semester of the third year the University will recommend qualified students for admission to the Duke School of Forestry. Each recommendation will be accompanied by the student's application for admission and a transcript of his academic record at Denison. No application need be made to the Duke School of Forestry prior to this time.

### COOPERATIVE ARRANGEMENT IN ENGINEERING

In order to facilitate the combination of liberal arts and engineering education and to give students planning careers in engineering an opportunity to secure a broad basis for their specialized courses and thereby enhance their worth as engineers and as citizens, *Rensselaer Polytechnic Institute* and *Carnegie Institute of Technology* have entered into a combined arrangement with Denison for a five-year course. In this program, a student spends his first three years at Denison and the last two at either engineering college in accordance with the provisions described in the preceding section. Upon successful completion of the combined program, the student will hold both a Bachelor of Science degree from Denison and a Bachelor of Engineering degree from R.P.I. or from Carnegie Tech. A similar arrangement is available with other approved colleges of engineering. In this program a student must complete all the specified requirements at Denison except that he need not take more than four semester courses in his major field at Denison. On this plan he may take his comprehensive examination at the end of his first year at an engineering school.



LIFE SCIENCE BUILDING

## COURSES OF STUDY

Denison expects a student to achieve the specialization needed for success in his chosen vocation, and to acquire the general knowledge common to all well-educated persons. To these ends, a student is required to concentrate in one or more fields of learning (see Departmental Courses, kinds of majors) and to comply with the listed course requirements in General Education.

## COURSES IN GENERAL EDUCATION

Every well-educated person needs certain skills and an understanding of the ideas, principles, and methods which are commonly used in the chief areas of modern knowledge. In recognition of this fact, many colleges in recent years have instituted a program of general education. These General Education courses are *basic* because they represent the common foundation of the curriculum which is required of every student *regardless of his field of specialization*. They are required in order that he may have a foundation upon which to build an enduring specialized career and in order that he may more intelligently assume his responsibilities as a citizen.

A number of the following General Education courses continue, with slight modification, courses which have long been offered in every college of liberal arts. Others cross traditional departmental lines to investigate broad areas of knowledge. All of them



are designed to contribute to vocational success and to provide the skills, understanding, and sense of values necessary for intelligent living.

*When a student demonstrates by examination that he is proficient in the subject matter of any of the courses in general education, he will be excused by the General Education course director from taking that course. A student who earns credit in introductory courses in the fields related to a General Education course may substitute these courses for the General Education course.*

In a General Education course which extends through two semesters, the student is expected to earn credit in the normal sequence. Credit for the first semester will be withheld until the second semester is satisfactorily completed.

AIR FORCE ROTC trainees who complete the two-year basic program will be permitted to meet the Physical Education requirement by earning two hours' credit only. AFROTC trainees majoring in Astronomy, Biology, Chemistry, Geography, Geology, Mathematics, or Physics will be permitted to meet the requirement in Fine Arts by earning credit in either General Education course 31 or 32, and the Literature requirement by earning six credits in a second-year course in a foreign language or in the Survey of American Literature or English Literature.

Hyphenated courses are year courses; credit indicates amount to be earned each semester.

## COMPOSITION

INTRODUCTION TO COMPOSITION AND LITERATURE 11-12      Mr. Downs,  
Chairman (1954-57) on leave; Miss Lewis,  
Acting Chairman (first semester); Staff. 3

This General Education course offers a review of the principles of rhetoric and the standards of usage; training in the organization of ideas and in methods of research; practice in various kinds of writing; and analytical reading of the major types of literature, ancient and modern. (To be taken in the freshman year, both semesters.)

## ORAL COMMUNICATION

The following General Education courses train the student to present ideas effectively from a public platform. A student may choose either course.

A student majoring in Speech or in Theatre Arts may substitute a three-hour introductory course in either of these areas for General Education courses 10s or 10t.

**PUBLIC SPEAKING 10s**

Mr. Crocker, Chairman; Staff. 2

Introduction to the fields of speech activity: interpretation, debating, public speaking.

**DRAMATIC INTERPRETATION 10t**

Mr. Wright, Chairman; Staff. 2

Intensive work on voice and diction; dramatic interpretation of the best literature in essays, narratives, drama, and poetry.

**HISTORY OF WESTERN CIVILIZATION****HISTORY OF WESTERN CIVILIZATION 21-22**

Mr. Southgate, Chairman (1955-58); Staff. 4

An investigation of the origins and development of Western culture and institutions. (To be taken in the freshman or sophomore year.)

**FORMS OF FINE ARTS****FORMS OF FINE ARTS 31, 32, 33**

Mr. Eschman, Chairman; Mr. H. King, Mr. Wright. Each 2

In this division, a student may choose two of the three General Education courses. (To be taken in any year, either semester.)

**FORMS OF ART 31**

Mr. H. King. 2

(Art 121, Field Trip, 2 hours second semester, may be substituted for this course.)

**FORMS OF MUSIC 32**

Mr. Eschman. 2

(Music 205-206, Appreciation of Music, 2 hours both semesters, may be substituted for this course.)

**FORMS OF THEATRE ARTS 33**

Mr. Wright. 2

(Theatre Arts 225, 2 hours second semester, may be substituted for this course.)

**FORMS OF THINKING****MATHEMATICS 40a**

Mr. Sterrett, Chairman (1954-57); Staff. 4

An introductory course in which basic concepts of mathematics are introduced and applied. Precise definitions, logical reasoning, and the generalization of known concepts are stressed. Two years of high school mathematics are required, but no detailed knowledge is assumed. A student who excels in mathematics and one who plans to major in this subject, or in a related field should substitute for this course the five-credit course, Mathematics 121. (To be taken in the freshman or sophomore year, either semester.)

## REFLECTIVE THINKING 40b

Mr. Boyley, Chairman (1954-57); Mr. Hepp,  
Mr. Keller. 4

The principles and problems of clear accurate thought, including analysis of meaning, logical structure, and factual inquiry in everyday life and the sciences. (To be taken in the freshman or sophomore year, either semester.)

## PRINCIPLES OF SCIENCE

To complete this requirement a student may take Life Science 51-52 and Physical Science 53-54 (minimum total 12 hours). If the student prefers, he may substitute an introductory laboratory science course for one of the two General Education courses in science. *Science majors may elect substitutes for both Life Science and Physical Science.*

## LIFE SCIENCE 51-52

Mr. Archibald, Chairman (1955-58). 3

A General Education course involving laboratory experience and demonstrations of the chief principles of organic development and behavior, sub-human and human, with emphasis upon scientific method and effective living. (To be taken in the freshman, sophomore, or junior year.) Five lecture-laboratory sessions each week.

For this course, a student may substitute a year course, including laboratory, in botany, psychology, or zoology.

and

## PHYSICAL SCIENCE 53-54

Mr. Collins, Chairman (1955-58). 3

A General Education course involving laboratory experience and demonstrations in mathematics, physics, astronomy, geology, and chemistry. Students who expect to major in a physical science may, by arrangement with the director of the course and the department chairman concerned, take this course for reduced credit. These students must, however, pass the examination on the entire course. Three lectures and one laboratory session each week. (To be taken in the freshman, sophomore, or junior year.)

For this course, a student may substitute a year course, including laboratory, in astronomy, chemistry, geology, or physics.

## LANGUAGE AND LITERATURE

## LANGUAGE AND LITERATURE

6-14

To complete this requirement a student may elect courses for which he is qualified in either foreign language or literature in English. (To be taken in any year.)

**FOREIGN LANGUAGE.** A student who takes this option must demonstrate before graduation an ability to read one of the following: French, German, Greek, Italian, Latin, Portuguese, or Spanish. The ability to read a foreign language is defined as the ability to pro-

nounce intelligibly and to translate several passages of moderately difficult prose into good English at sight. This degree of proficiency may ordinarily be acquired by studying a language three or four years in secondary school or two years in college. All students with language training are encouraged to take a test for proficiency. Proficiency tests are regularly given at the opening of college in the fall and at the end of each semester. A student who has studied foreign language for two years in secondary school or in the freshman college year may satisfy the requirement by taking a six-credit, second-year course and passing the course examination.

**LITERATURE IN ENGLISH.** A student who elects to meet this requirement must gain credit in English 211-212 (English Literature) or English 231-232 (American Literature), and two additional hours of English or American literature or a foreign literature course studied in English translation. A student who shows proficiency in the subject matter of the courses in English or American literature by passing an examination administered by the Department of English may thus satisfy his requirements.

### BASIC PRINCIPLES OF SOCIAL SCIENCE

**SOCIAL SCIENCE 71-72** Mr. Nelson, Chairman 1956-59 (on leave 1956-57).

Mr. Cory, Acting Chairman; Staff. 3

An integration of principles selected from the social sciences. Emphasis is placed upon the use of scientific analysis within the social sciences and the application of this methodology to current social, economic, and political problems. Prerequisite: History of Western Civilization 21-22. (To be taken in the sophomore or junior year.)

For this General Education course, a student may substitute the first semester of the introductory course in Economics, and the introductory courses in Government, and Sociology. A student interested in any of these fields as a possible major is advised to make this substitution. A student who earns credit in General Education course 71-72 and decides to major in economics, government, or sociology is required to take the introductory course in the field chosen in addition to General Education course 71-72.

### BASIC PHILOSOPHIC AND RELIGIOUS IDEAS

**INTRODUCTION TO PHILOSOPHY AND RELIGION 18**

Mr. Scott, Chairman (1956-59); Staff. 3

A study of great events and ideas in the religion and philosophy of men in the Western World. Emphasis is placed on certain basic issues which the student will meet in other fields of study, and to which he will return in the advanced companion course in this field. (To be taken in the freshman year either semester.)

## BASIC PHILOSOPHIC AND RELIGIOUS IDEAS 81-2\*

Mr. Scott, Chairman; Staff. 4

An examination of various interpretations of life with emphasis on the integrative function each may perform for one's knowledge and experience. The course strives to further the student's formulation of an adequate philosophy of life. Prerequisite, Social Science 71-72. (To be taken in either the junior or senior year either semester.)

For this General Education course, a student may substitute Philosophy 303 and Religion 217 or one of these and a year sequence in the other department, or a year sequence in both departments, from the following: Religion 111, 112 or 213-214; Philosophy 321, 326, 331, 332, or 333, 334.

SUMMARY OF COURSE REQUIREMENTS IN  
GENERAL EDUCATION

## Freshman Year

- 11-12 Introduction to Composition and Literature  
 18 Introduction to Philosophy and Religion  
 21-22 History of Western Civilization (except for the student choosing to major in Science or Mathematics)  
 51-52 Life Science or 53-54 Physical Science (or Alternates)

## Choice:

- 40a Mathematics or 40b Reflective Thinking

## Sophomore or Junior Year

- 51-52 Life Science or 53-54 Physical Science (or Alternates)  
 71-72 Social Science or Alternates. Prerequisite: 21-22.

## Junior or Senior Year

- \*81-2 Basic Philosophic and Religious Ideas (or Alternates). Prerequisite: 71-72.

## In Any Year

- 10s Public Speaking or 10t Dramatic Interpretation  
 Two of the Forms of Fine Arts:  
 31 Art; 32 Music; 33 Theatre Arts (or Alternates)  
 6 to 14 hours of Foreign Language or 8 hours of Literature in English, including English 211-212 or 231-232.

\*General Education courses 81-2 represents a reorganization of what was formerly a year course. This course, or one of its alternatives, will be required of all graduating students in the year 1957. Beginning in September, 1957, General Education course 81 will be offered for three hours as a companion course to General Education course 18.

## DEPARTMENTAL COURSES

The courses listed under each department indicate the areas of specialization open to a student. Departments of instruction are presented in alphabetical order.

**COURSE NUMBERS.** Courses offered are listed with the descriptive title and semester-hours of credit. Courses numbered 100-199 are intended primarily for freshmen; 200-299, for sophomores; 300-399, for juniors; and 400-499, for seniors. Odd-numbered courses are given in the first semester and the even-numbered ones in the second semester unless otherwise indicated. Hyphenated courses are year-courses; credit indicates amount to be earned *each semester*.

**COURSES OFFERED.** The University plans to offer the courses listed below but reserves the right in any year to withdraw those of interest to only a few students.

**KINDS OF MAJORS.** Three kinds of majors are offered: (1) departmental, (2) transdepartmental, and (3) combined. Requirements for a major in a single department are stated under each department. A major involving a study of subjects relating to more than one department is listed below as a transdepartmental major. A combined major differs from a departmental major in that the field of concentration involves courses from more than one department and in several closely related fields. Arrangements for a combined major may be made with the Dean of the College. Transdepartmental majors described below require the study of related subjects in several departments.

## TRANSDepartmental Majors

### MAJOR IN THE AREA STUDIES: THE AMERICAS, FRANCE, or GERMANY

A major in The Americas, France, or Germany coordinates courses dealing with foreign countries, regions, and civilizations in various departments of the university. The courses are chosen from Modern Languages, Geography, History, Government, Economics, Philosophy, Sociology, and English. This major provides background for a career in foreign service, business enterprises dealing with foreign countries, teaching, journalism, international relations work, or related activities. A student interested in enrolling for the Americas should see Mr. Bancroft; for France, Mr. Secor; and for Germany, Mr. Stern.

## INDEPENDENT STUDY

## 401-402. AREA STUDY: SENIOR PROBLEMS IN AREA STUDY

Modern Language Staff. 3

A terminal integrating course of independent study to be taken in the senior year by the student majoring in either The Americas, France, or Germany transdepartmental area sequence.

**MAJOR IN CHILD DEVELOPMENT AND FAMILY LIFE.** This major is designed to prepare the student who may continue in graduate study or professional work in the field, for more adequate family life and community activity. The course sequence emphasizes courses from the departments of Family Life and Psychology with supporting courses from other departments. Approximately 50 semester-hours in a sequence of related courses is required. (Adviser: Mr. Crist.)

**MAJOR IN COMMUNITY RECREATION.** The major in Community Recreation is designed to prepare a student for leadership in organization, administration, and program services, and for further professional training in graduate school. Approximately 50 semester-hours are required in departmental course sequences in Physical Education, Psychology, and Sociology. (Adviser: Miss Shepard.)

**MAJOR IN FAMILY AND COMMUNITY PARTICIPATION.** This major is designed to prepare the student for more participation in family life and community activity. Approximately 50 semester-hours in a sequence of related courses is required. (Adviser: Mr. Crist.)

**MAJOR IN SOCIAL STUDIES.** The major in Social Studies is designed to give the student a broad cultural background in the various subject areas of the social sciences. A student selecting this major would satisfactorily complete 50 to 60 hours in the departments of Economics, Geography, Government, History, Philosophy, Psychology, Religion, and Sociology. He chooses one of these departments for his major emphasis, thus taking 15 to 18 hours' credit under the guidance of a faculty member from that department who serves as his Adviser in planning a program of related courses from four of the above departments in the social studies areas that will most fully meet his individual needs.

**AIR SCIENCE**

Col. Larson, Maj. Hays, Capt. Gordon

Chairman, Col. Larson

Officer-in-charge, Maj. Hays

Satisfactory completion of outlined courses and other Air Force requirements will make the student eligible for a commission in the United States Air Force Reserve. (See Air Force ROTC Program.)

Basic courses (101-102; 201-202) are open to all physically qualified male students. Advanced courses (301-302; 401-402) are open to physically qualified male students who are accepted by the Professor of Air Science (PAS). All interested students should confer with a member of the department prior to registration. (See Courses in General Education for other requirements.)

**NOTE:** The course of study is divided into the basic course covering the first two years and the advanced course covering the junior year, summer camp, and senior year, in that order. The course consists of blocks of instruction totaling 480 hours, allocated as follows: Freshman and Sophomore years, 90 hours each; Junior and Senior years, 150 hours each; and Summer Camp, an additional 196 hours.

**101-102. BASIC AIR SCIENCE****Staff. 1**

Introduction to aviation, fundamentals of global geography, international tensions and security organizations, instruments of national military security, and leadership, laboratory consisting of basic military training.

**201-202. BASIC AIR SCIENCE****Staff. 1**

Elements of aerial warfare; targets, weapons, aircraft, air ocean, bases, forces, and careers in US Air Force. Leadership laboratory consisting of drill and cadet non-commissioned officers' training. Prerequisite, 101-102 or equivalent.

**301-302. ADVANCED AIR SCIENCE****Staff. 3**

The Air Force Commander and his staff, problem-solving techniques, communicating in the Air Force, instructing in the Air Force, military justice system, aerodynamics and propulsion, navigation, weather, and Air Force base functions. Leadership laboratory consisting of cadet commissioned officers' training. Prerequisite, Basic Course or equivalent and approval of the Professor of Air Science.

**401-402. ADVANCED AIR SCIENCE****Staff. 3**

Critique of summer camp, leadership management seminar, career guidance, military aspects of world political geography, mili-



tary aviation and the evolution of warfare, and briefing for commissioned service. Leadership laboratory consisting of commissioned cadet officers' training and exercise of command. Prerequisite, 301-302 or equivalent and approval of the Professor of Air Science.

## ART

Mr. H. King, Mr. Ketner, Mrs. Pixley, Mrs. Campbell  
Chairman (1955-58), Mr. Horace King

The courses are arranged in sequences to meet the needs of students interested in studio work and those who wish to specialize in art criticism and art history.

### MAJOR IN ART

An Art major who expects to begin preparation for the professional fields of design, painting, sculpture, ceramics, architecture, teaching, and museum work should begin with the elementary courses 101-102, 111-112, and 113-114, then confer with the staff for a proper sequence of courses in advanced study.

Requirements for all Art majors include the elementary courses in drawing and design, and art theory, art history, and one of the courses in painting.

General Education courses 31-32-33 serve as an introduction to art appreciation *but do not count toward an art major*. General Education course 31 should not be elected by art majors.

### LECTURE COURSES

#### 101-102. ART THEORY

Staff. 1

General course in art structure, terminology, and criticism designed to integrate the several courses and to acquaint the students with professional opportunities.

#### 106. ART CRITICISM

Mr. King. 2

Methods of art criticism and analysis of articles on criticism, followed by practical problems of writing criticisms of selected art forms. (Offered in alternate years.)

#### 121. FIELD TRIP

Mr. King. 2

Spring vacation field trip to metropolitan museums, galleries, and other art centers, and interviews with leading artists; preceded by studies of collections and followed by written reports. (May be substituted for General Education course 31.)

## 151. HOME PLANNING

Mr. King. 3

Illustrated lectures covering problems of planning, equipping, and furnishing the modern home. (Offered in 1956-57 and in alternate years.)

## 205-206. HISTORY OF ART

Mrs. Pixley. 3

General survey of the Arts of the Western World. Ancient and Medieval (first semester); Renaissance, and Modern (second semester). Open to election separately.

## 307-308. ORIENTAL ART

2

A comprehensive study of the arts of India, China, and Japan approached through the religions and cultures of the Orient. (Not offered in 1956-57.)

## 407-408. MODERN ART

Mr. King. 2

19th century art through Impressionism (first semester); contemporary movements in architecture, sculpture, painting, and the crafts (second semester). (Not offered in 1956-57.)

## 425-426. ART IN AMERICA

Mr. Ketner. 2

Colonial art to post-Civil War period (first semester); late 19th century to contemporary arts (second semester) with emphasis upon America's contribution to world art today.

## STUDIO COURSES

## 103-104. ELEMENTS OF ART

2

Studio course for those wishing some practice in art but not choosing to major.

## 111-112. DRAWING

Mrs. Pixley. 2

Freehand drawing from still life, figure, and landscape with problems in composition and perspective. To be taken with 101-102 and 113-114.

## 113-114. DESIGN

Mr. Ketner. 2

Line, plane, and volume problems in black and white, color and 3-dimensional materials. To be taken with 101-102 and 111-112.

## 215-216. PAINTING

Mr. Ketner. 3

Prerequisites: 112 and 114.

## 221-222. TECHNICAL PROBLEMS

Staff. 2 or 3

Prerequisites: 112 and 114.

Choice of an individual problem from the following:

A. Ceramics

D. Figure and Illustration

B. Design Projects

E. Lettering and Layout

C. Graphics

F. Metalwork and Enameling

G. Sculpture

## 315-316. INTERMEDIATE PAINTING

Mr. Ketner. 3

Prerequisite: 216.

## 321-322. INTERMEDIATE TECHNICAL PROBLEMS

Staff. 2 or 3

Prerequisite: 222.

## 361-362. DIRECTED STUDY IN ART

Staff. 3

## 415-416. ADVANCED PAINTING

Mr. Ketner. 3

Prerequisite: 316.

## 421-422. ADVANCED TECHNICAL PROBLEMS

Staff. 2 or 3

Prerequisite: 322.

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

THE TEACHING OF PUBLIC SCHOOL ART (See Education 341.)

## ASTRONOMY

Mr. Howe, Mr. Wheeler

Chairman (1954-57), Mr. Howe

Astronomy 111 and 112 are intended primarily for those who desire an elementary acquaintance with the physical universe. Those who wish a 4-hour course with laboratory may elect 113 and 114 in combination with 111 and 112.

## MAJOR IN ASTRONOMY

Requirements for a major in Astronomy are 24 semester-hours of credit in the courses in Astronomy in addition to The Calculus and at least 24 hours in Physics.

- |   |                |
|---|----------------|
| 111. DESCRIPTIVE ASTRONOMY  | Mr. Wheeler. 3 |
| Celestial sphere: coordinate systems and constellation study; the solar system—motions of the earth and moon; latitude, longitude, and time; planets, comets, and meteors. Astronomy 113 is recommended as an accompanying course. <i>No previous training in Physics or College Mathematics is required.</i> |                |
| 112. DESCRIPTIVE ASTRONOMY  | Mr. Wheeler. 3 |
| The Galactic System—the sun as a star; distances, motions, luminosities, types and classes of stars, and their spectra; extragalactic systems. Prerequisite: 111 or consent of instructor.  |                |
| 113. LABORATORY ASTRONOMY   | Mr. Wheeler. 1 |
| Devoted principally to problems intended to clarify the lecture material of Astronomy 111. May be taken only in combination with 111. (Evening to be arranged.)   |                |
| 114. LABORATORY ASTRONOMY   | Mr. Wheeler. 1 |
| Continuation of 113, paralleling 112. (Evening to be arranged.)   |                |
| 211-212. GENERAL ASTRONOMY  | Mr. Wheeler. 3 |
| A secondary comprehensive course for majors in Astronomy and related sciences. Prerequisite: 111, 112, or consent of instructor.  |                |
| 215. STELLAR ASTRONOMY  | 3              |
| Prerequisite: 111, 112, and consent of instructor.  |                |
| 218. THEORY AND PRACTICE OF OBSERVATION   | Arr.           |
| Prerequisite: 113, 114, and consent of instructor.  |                |
| 221-222. SEMINAR  | Arr.           |
| Consent of instructor.  |                |
| 361-362. DIRECTED STUDY   | Staff. 3       |
| 411. CELESTIAL MECHANICS  | 3              |
| Prerequisite: The Calculus.   |                |
| 414. ASTROPHYSICS   | 3              |
| 461-462. INDIVIDUAL WORK FOR HONORS   | Staff. 3       |

**BIOLOGICAL SCIENCES**

Mr. Lindsey, Mr. Morgan, Mr. Truman, Mr. Alrutz

Senior Professor, Mr. Lindsey

Chairman (1954-57), Mr. Morgan

Courses 111-112, 115, 116, 201-202, 225, and 226 offer subject matter of general interest. While 111-112 meets the minimum entrance requirement of medical schools, 211, 212, and 224 are recommended or required by some. Medical schools require a medical admission test in the student's final undergraduate year, for which the fee of \$10 is payable to the testing organization. General Education course 51-52 is accepted as a prerequisite for advanced courses in place of 111-112.

**MAJOR IN BIOLOGY**

A major must include 111-112 or an acceptable equivalent, with advanced courses related to the student's principal interest. The sequence is arranged in consultation with the staff members with whom the student chooses to do his advanced work, or with the chairman of the department. A major for premedical students usually includes 111-112, 211, 212, 223, and 224.

**111-112. INTRODUCTORY BIOLOGY**

Staff. 4

General biological principles and animal life, with a limited amount of plant study.

**113. NATURE STUDY**

Mr. Alrutz. 3-4

A course devoted to the biology and identification of local wild life, mostly in the field. Prerequisites: Biology 111-112, or General Education course 51-52, or Biology 115, 116.

**115, 116. GENERAL BOTANY**

Mr. Truman. 4

A consideration of fundamental biological principles as expressed in the structure and activities of plants, including reproduction, inheritance, identification of common trees, weeds, and wild flowers, and a survey of the major groups of the Plant Kingdom. 115 is not a prerequisite to 116.

**120. LOCAL FLORA**

Mr. Truman. 3

A taxonomic study of the local flora, including the spring flowering species, the common trees in winter and summer conditions, and also the position of the flora in the plant geography of the United States.

**201-202. ANATOMY AND PHYSIOLOGY** Mr. Morgan. 3

The normal structure and functions of the human body. Two lecture periods and one two-hour laboratory a week.

**211. COMPARATIVE ANATOMY** Mr. Morgan. 4

A study of the phylum Chordata based chiefly on anatomical relations with brief consideration of classification and habits. Laboratory work is chiefly detailed dissection and comparative study of the primitive chordates, the shark, Necturus, and the rat. Prerequisite: 111-112 or General Education course 51-52.

**212. MAMMALIAN ANATOMY** Mr. Morgan. 4

Anatomy of mammals based on the cat, with human material for comparison. This course usually follows 211 but may be taken separately. Prerequisite: 111-112 or General Education course 51-52.

**214. FIELD BIOLOGY** Mr. Alrutz. 3-4

A course in basic ecology with emphasis on the techniques of field study, collection, preservation, and identification. Prerequisites: Biology 111-112 or General Education course 51-52. (Offered in 1956-57 and in alternate years.)

**215. GENERAL BACTERIOLOGY** Mr. Truman. 5

Introduction to the bacteria and the importance of their activities in nature, industry, and disease, with laboratory emphasis on staining, culture, and physiological characteristics. Prerequisite: 111-112, 116, General Education 51-52. Open also to chemistry majors.

**216. DETERMINATIVE BACTERIOLOGY** Mr. Truman. 2-3

Laboratory practice in the preparation of special bacteriological media, stains and reagents and their use in the identification of unknowns. Prerequisite: 215. (Offered in second semester 1956-57 and in alternate years.)

**218. PLANT MORPHOLOGY** Mr. Truman. 4

Comparative study of the structure and life cycles of the major plant groups with reference to their evolutionary relationships. (Offered in first semester 1957-58 and in alternate years.)

**222. PARASITOLOGY** Mr. Alrutz. 4

A study of the common parasites of animals with special emphasis on those affecting man. Prerequisite: Biology 111-112 or General Education course 51-52. (Offered in 1957-58 and in alternate years.)

## 223. HISTOLOGY

Mr. Lindsey. 5

The minute anatomy of vertebrates, chiefly mammals, including the making of microscopic preparations. Prerequisite: 111-112, or General Education course 51-52.

## 224. EMBRYOLOGY

Mr. Lindsey. 5

The development of the vertebrate body, based on the study of the frog, chick, and pig. Usually follows 223 but may be taken separately. Prerequisite: 111-112, or General Education course 51-52.

## 225. GENETICS

Mr. Lindsey. 2

A basic course in the principles of heredity, their importance in human life and their bearing on evolution. Prerequisite: 111-112, 115, 116 or General Education course 51-52. Superior upperclass students may be admitted by consent without prerequisites.

## 226. EVOLUTION

Mr. Lindsey. 2

The relations of living things, including the origin of life and existing species and theories of organic evolution. Prerequisite: 225 or consent of instructor.

## 227-228. ENTOMOLOGY

3

Introductory study of insects. Offered only by special arrangement. Prerequisite: 111-112, or General Education course 51-52.

## 232. PLANT PHYSIOLOGY

Mr. Truman. 3-4

A lecture, laboratory, and greenhouse study of the functional relationships of the plant body in which absorption and transfer of materials, photosynthesis, respiration, and transpiration are treated with special attention to the problems of plant growth, development, and propagation. Prerequisite: 115 and one year of chemistry. (Offered in second semester 1957-58 and in alternate years.)

## 361-362. DIRECTED STUDY

Staff. 3

Opportunities for the qualified student to extend his interest beyond the limits of course offerings.

## 401-402. SEMINAR

Staff. 1

A consideration of the history of biology and contemporary research. Required of all majors.

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

## CHEMISTRY

Mr. Ronneberg, Mr. Everhart (part-time), Mr. Spessard, Mr. Sutton,  
Mr. J. B. Brown  
Chairman (1955-58), Mr. Ronneberg

Courses in Chemistry provide a general cultural background, preparation for entering chemical industry or for graduate study in pure chemistry or chemical engineering; and basic preparation for professional work in certain scientific fields of medicine, dentistry, physics, and engineering, and as laboratory technicians.

A deposit of \$5 a semester for breakage and non-returnable supplies is required except for 413-414, and 450.

## MAJOR IN CHEMISTRY

The department is among those accredited by the American Chemical Society with respect to facilities, faculty, and curricula. A student who wishes certification to the American Chemical Society must qualify as a chemistry major (next paragraph) and must also have earned credit in 311-312, 450, and in at least two of the following courses: 361-362, 415, 417, 419 or 461-462. A student who plans to go to graduate school is urged to take 311-312 and 323-324 his junior year and 415, 419 or 461 his senior year. In addition he must have earned credit in Mathematics 216 or 222, and must have a reading knowledge of German. A student who finishes this sequence of courses may elect to receive the B.S. degree and will meet the requirements for entrance to graduate schools of chemistry.

Students may graduate with a B.A. degree on fulfillment of graduation requirements and completion of the following courses: 111-112, 213 and 214, or 215 and 216, 323-324; Physics 115-116 or 121-122; and Mathematics 116 or 122. Courses 111-112 and 323-324 meet the entrance requirements of medical schools as a minimum, while 213 and 214 are considered highly desirable and are required by many medical schools.

## 101-102. GENERAL CHEMISTRY

Staff. 4

An introductory course in general chemistry in preparation for home economics, nursing, laboratory technology, and allied fields. Includes fundamentals of inorganic and physical chemistry, organic chemistry, and biochemistry. (Primarily for women.)



**111-112. GENERAL CHEMISTRY INCLUDING QUALITATIVE ANALYSIS**

Staff. 4

The fundamental principles of chemistry including qualitative analysis. It is recommended that a student have completed a high school course in Physics or Chemistry as a preparation for this course. Prerequisites: High school algebra and geometry.

**213. ELEMENTARY PHYSICAL CHEMISTRY**

Mr. Ronneberg. 4

Further emphasis on the fundamental principles of chemistry including structure, properties of solutions and colloidal suspensions, and equilibrium. Laboratory assignments are designed to stress skill in the use of an analytical balance. Prerequisite: 112.

**214. QUANTITATIVE ANALYSIS**

Staff. 4

Gravimetric, volumetric, and electrometric methods of analysis; drill in calculations and fundamental theories. Prerequisite: 213. Designed for premedical students, technicians, and those who wish an elementary course.

**215. ANALYTICAL CHEMISTRY**

Staff. 4

Early emphasis on fundamental laws of equilibria and other properties of solutions. Later emphasis on principles and procedures of quantitative analysis. Prerequisites: 112, General Education course 40a, and consent of instructor. Both 215 and 216 are designed for the needs of chemistry and engineering majors (candidates for the B.S. degree).

**216. QUANTITATIVE ANALYSIS**

Staff. 4

A continuation of quantitative analysis, including volumetric, gravimetric, and electrometric methods. Prerequisite: 215.

**311-312. THEORETICAL CHEMISTRY**

Mr. Ronneberg. Mr. Sutton. 4

Full and mathematical treatment of fundamental theories underlying the science of chemistry. Prerequisite: 214 or 216; Physics 116 or 122; and Mathematics 215-216 or 221-222. Physics majors accepted on recommendation of their adviser.

**323-324. ORGANIC CHEMISTRY**

Mr. Spessard. 4

The chemistry of aliphatic, aromatic, and heterocyclic compounds of carbon. Prerequisite: 112; junior standing or consent.

**361-362. DIRECTED STUDY IN CHEMISTRY**

Staff. 3

Prerequisite 214 or 216 and registration in 311.

**415. QUALITATIVE ORGANIC ANALYSIS**

Mr. Spessard. 3

Methods of qualitative organic analysis. Prerequisite: 324.

**417. ADVANCED INORGANIC CHEMISTRY**

Staff. 3

The systematic study of inorganic compounds with laboratory preparations. Prerequisites: 311 and registration or credit in 312.

**419. INSTRUMENTAL ANALYSIS**

Mr. Brown. 3 or 4

The theory and practice of instrumental analysis to include spectrophotometry, pH measurements, electrodeposition, and polarography. Some advanced topics in physical and inorganic chemistry are also included for the fourth credit hour. Prerequisite: Chemistry 311 and registration or credit in Chemistry 312.

**450. SEMINAR AND READING COURSE**

Staff. 3 (for a year)

Designed to integrate the student's work in the various areas of chemistry, to require familiarization with the chemical literature, and to prepare students systematically for the comprehensive examinations in Chemistry. Meets two hours a week both semesters.

**461-462. INDIVIDUAL WORK FOR HONORS**

Staff. 3

**CLASSICAL LANGUAGES**

Chairman, Mr. Dean (part-time)

Students who desire to major in Classical Languages should consult with the Chairman during the freshman year. A major sequence can be arranged in either Latin or Greek.

**COURSES IN CLASSICAL CIVILIZATION**

*(These courses do not require use or study of Greek or Latin Languages.)*

**GREEK 101. GREEK CIVILIZATION**

2

Topical study of the chief aspects of ancient Greek life and thought. May be included in a History major. (Not offered in 1956-57.)

**LATIN 104. ROMAN CIVILIZATION**

2

Structure of Roman customs and institutions as a legacy to the modern world. (Offered in 1956-57.)

**GREEK 201. GREEK DRAMA**

2

Fifteen plays, tragedies, and comedies are read and discussed. Alternates with 203. (Not offered in 1956-57.)

**GREEK 203. GREEK LITERATURE IN ENGLISH 2**

Cross-section of the varied forms of literary expression, exclusive of drama. Alternates with 201. (Not offered in 1956-57.)

**GREEK 204. MYTHOLOGY-RELIGION 2**

A survey of the principal myths and a study of their use in European and American Literature and Art. (Offered in 1956-57.)

**LATIN 206. LATIN LITERATURE IN ENGLISH 2**

Selections from the leading writers. Alternates with Greek 204. (Offered in 1956-57.)

**COURSES IN LANGUAGE**

*(Any of the following will be given, if demand warrants.)*

**GREEK****111-112. INTRODUCTION TO THE GREEK LANGUAGE 3**

Forms, grammar, and elementary reading. Open to the students of all classes.

**211-212. GREEK NEW TESTAMENT 3**

One of the Gospels (first semester); One of Paul's Epistles (second semester). Prerequisite: 111-112.

**LATIN****101. SELECTIONS FROM CICERO 3**

Prerequisite: Two or three years of high school Latin. (Offered in 1956-57.)

**102. VIRGIL 3**

Selections from the first six books of the *Aeneid*. Prerequisite: Three years of high school Latin. (Offered in 1956-57.)

**111-112. SELECTIONS FROM LATIN LITERATURE 3**

Principally comedies, lyric, elegiac, and satiric poetry. Prerequisite: Four years of high school Latin.

**211. CICERO AND OVID 3**

History and mythology. Sight reading. Prerequisite: 111-112.

**212. PLINY AND ROMAN HISTORIANS 3**

Letters and essays. Prerequisite: 211.

**311-312. VIRGIL 3**

A study of all the poems of Virgil.

## ECONOMICS

Mr. Gordon (on leave first semester 1956-57), Mr. Lehman, Mr. Nelson (on leave 1956-57), Mr. Elliott, Mr. Chiang, Mr. Weiner, Mr. Flynn (first semester only)

Senior Professor and Chairman (1954-57), Mr. Gordon

Acting Chairman (first semester 1956-57), Mr. Elliott

A student wishing to concentrate in Economics may choose between a major in Economics and a major in Business.

### MAJOR IN ECONOMICS

A student majoring in Economics is required to take 211-212 and at least 18 semester-hours chosen from the following courses: 223-224, 313, 315, 317-318, 410, 413, 414, 421-422, 425, 431, and 440. He may take additional courses in this department up to a maximum of 36 hours (not counting 211) and should take at least 30 hours.

He is required to take the following related courses: General Education course 40a, History 222, and two of the following: General Education course 40b, Mathematics 108, or 205.

In addition a major in Economics is required to take at least 12 hours among the following related courses: Geography 221, 226; Government 211, 212, 312, 345; History 321; Mathematics 206; Philosophy 321, 326; Psychology 211, 320, 417; Sociology 207, 208, 415. A student who contemplates graduate study or government service should elect a modern foreign language.

### MAJOR IN BUSINESS

A major in Business is required to take 211-212 and at least 18 semester-hours chosen from the following courses: 223-224, 313, 314, 315, 316, 317-318, 332, 410, 419, 424, 425, 431, 440, 442, and 444. He may take additional courses in this department up to a maximum of 36 hours (not counting 211) and should take at least 30 hours.

He is required to take the following related courses: General Education course 40a, History 222, and two of the following: General Education course 40b, Mathematics 108, or 205.

In addition a business major is required to take at least 12 hours among the following related courses: Geography 221, 226; Government 211, 231-232, 312; Mathematics 206; Philosophy 321, 326; Psychology 211, 320, 417; Sociology 207, 415.

### 211-212. PRINCIPLES AND PROBLEMS OF ECONOMICS

Staff. 3

This course, primarily designed for social science majors, is oriented to present an explanation of how the private enterprise system operates, and to provide fundamental economic principles, and working tools prerequisite for economic analysis.

**223-224. ACCOUNTING SURVEY****Mr. Weiner. 3**

A survey of accounting designed specifically for liberal arts students interested in business, economics, law, and government. Introduction to the principles of financial statements, costs and revenues, cost accounting, non-profit accounting, consolidated statements, and analysis of financial statements.

**313. PUBLIC POLICIES TOWARD BUSINESS****Mr. Weiner. 3**

The development of public policy in the United States from its common law origins—Federal anti-trust legislation and its judicial interpretation. Public regulation of utilities, transportation, and communications. A study of the modern industrial structure and organization. Prerequisite: 211-212 or consent of instructor.

**314. MARKETING, PUBLIC POLICY, AND PRICES****Mr. Weiner. 3**

An analysis of the functions and agencies involved in marketing, and of the structure of markets. Relevant anti-trust material will be included. A theoretical study of the effects of distribution on prices.

**315. MONEY AND BANKING****Mr. Lehman. 3**

Principles of money, credit, and banking, including a study of the institutions and financial organizations designed to supply society with adequate media of exchange. Development of American monetary and banking practices and policies. Prerequisites: 211-212, or consent of instructor.

**316. CORPORATE ORGANIZATION AND FINANCE****Mr. Elliott. 3**

Principles underlying the promotion, organization, financial structure, control, failure, and reorganization of corporate enterprise. Prerequisites: 211-212, or consent of instructor. It is highly desirable that students registering for this course shall also have had 223-224.

**317-318. LABOR ECONOMICS****Mr. Gordon, Mr. Elliott. 2**

Employer-employee relations as they affect individuals and the national economy. The functions of various branches of government in the cross currents of employer, employee, and consumer interests. *Both semesters must be completed for credit.* Prerequisites: 211-212, or consent of instructor.

**332. ECONOMICS FOR CONSUMERS****Mr. Gordon. 3**

An analysis and evaluation of consumers' role in the economy, followed by consideration of forces affecting consumer demand such as custom, fashion, and advertising, concluding with a study of ways in which consumers can perform their functions more effectively.

**361-362. DIRECTED STUDY IN ECONOMICS****Staff. 3**

410. PUBLIC FINANCE Mr. Lehman, Mr. Chiang. 3  
Public revenues, expenditures, debt, and financial administration, with special attention to the theory and practice of taxation and to problems of fiscal policy. Prerequisites: 211-212, or consent of instructor.
413. RECENT DEVELOPMENTS IN ECONOMIC THOUGHT Mr. Elliott. 2  
Based on readings in current economic journals. Consent of instructor.
414. SEMINAR Mr. Gordon. 2  
Introduction to principles and methods of research. Consent of instructor.
419. PRINCIPLES OF INSURANCE Mr. Weiner. 3  
Survey of property, casualty, liability, and social insurance, with special emphasis on the principles of life insurance. Open to all seniors.
- 421-422. ADVANCED ECONOMIC ANALYSIS Mr. Chiang. 2  
Application of the tools of economic analysis to problems of production, pricing, distribution, income, and employment. Prerequisites: 211-212.
424. PRINCIPLES AND PRACTICES OF INVESTMENTS Mr. Lehman. 3  
The social implications of investments; the problem of investing funds from the individual viewpoint; analysis of types of securities; methods of analyzing specific securities; evaluation of forecasting methods. Prerequisites: 211-212, and 223-224.
425. FLUCTUATIONS IN THE LEVEL OF PRICES, INCOME, AND EMPLOYMENT Mr. Elliott. 3  
A study of national income accounting, major theories of prosperity and depression, the role of special interest groups in economic fluctuations, and stabilization proposals. Prerequisites: 211-212, 315, or consent of instructor.
431. INTERNATIONAL TRADE AND FINANCE Mr. Chiang. 3  
Bases of trade among nations; the theory and mechanism of international financial transactions; evaluation of international commercial and financial policies, with special reference to those of the United States. Prerequisites: 211-212 or consent of instructor.
440. WASHINGTON FIELD TRIP 2  
A trip to observe the federal government perform its economic functions. Conferences are arranged with individuals prominent in formulating or administering governmental economic policies. Spring vacation. Consent of instructor.

## 442-444. DENISON BUSINESS COUNCIL FIELD TRIP

Mr. Elliott. 2

A field trip for the purpose of observing outstanding business and financial organizations in operation. Conferences will be arranged with prominent executives of the various companies. Trips are arranged in alternate years; 442 to Columbus and Cleveland in even years; 444 to Columbus, Cincinnati, and Dayton in odd years. Spring vacation. Consent of instructor.

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

## EDUCATION

Mr. Carter (on leave 1956-57); Mr. Schaff, Mr. Holton, Mr. Nichols

Chairman (1956-59), Mr. Carter

Acting Chairman (1956-57), Mr. Schaff

TEACHER PREPARATION. Denison University is accredited by the State Department of Education in Ohio in the teacher-preparation field of secondary education, including the junior high school and senior high school. The University also offers some of the courses required in the preparation of teachers and leaders in the fields of religious, commercial, and elementary education. *Special Certificates in Music* (See Music Curriculum) and *Physical and Health Education* may be obtained by both men and women (see Physical Education) on completion of the required courses of these curricula. A student registering for courses in Education must obtain at least the mean score on the American Council on Education Psychological Examination or its equivalent on another test. He must also make a satisfactory rating on standardized tests in English, handwriting, and vocabulary. The student will be required to submit to a speech test given by the Department of Speech and, if found deficient, must register for appropriate courses.

A student expecting to become a teacher or coach of athletics should confer with the members of the Department of Education as early as possible on planning an effective four-year schedule.

A student who takes practice-teaching must meet the requirements for teacher certification in the State of Ohio. A student who plans to meet the certification requirements of other States should confer with the members of the Department of Education as early as possible in order to elect the proper courses.

Practice teaching assignments are made in the various schools in Licking County. These assignments are made at the convenience of the Department of Education but *responsibility for transportation to the assignment rests with the student.*

**MAJOR IN EDUCATION.** A student majoring in Education qualifies for a Bachelor of Science in Education degree. He is required to take a minimum of 24 hours in the department, and General Psychology. He must take the following courses: Education 213, 217, 325, 326 or special methods in an academic subject; 415, 416, and 420.

213. THE SECONDARY SCHOOL CURRICULUM Mr. Nichols. 3

A general orientation in the field of the secondary school curriculum to aid the student in the understanding of factors influencing the curriculum and of the environment in which he will teach.

215. HISTORY OF EDUCATION 3

This course will place some emphasis on education in the United States.

217. CHILD AND ADOLESCENT DEVELOPMENT 3

Psychological development especially during early periods of growth. (Also listed as Psychology 217.)

311. THE TEACHING OF SCIENCE Mr. Truman. 3

Prerequisites: Education 217, Psychology 211.

315. METHODS OF MUSIC FOR THE ELEMENTARY SCHOOLS Mr. Hunter. 3

Prerequisites: Education 217, Psychology 211. Alternates with 316.

316. METHODS OF TEACHING MUSIC IN THE HIGH SCHOOL Mr. Hunter. 3

Prerequisites: Education 217, Psychology 211. Alternates with 315.

318. EDUCATIONAL SOCIOLOGY Mr. Valdes. 2

Prerequisite: Education 217 or Sociology 207 or its equivalent. (Also listed as Sociology 318. Not offered in 1956-57.)

320. THE TEACHING OF SOCIAL STUDIES Mr. Nichols. 3

Prerequisites: Education 217, Psychology 211.

325. EVALUATION OF TEACHING 3

Construction and use of tests; selection of standard tests; and interpretation of test results.

326. THE TEACHING OF GENERAL METHODS IN HIGH SCHOOL 3

Prerequisites: Education 217, Psychology 211.

331. THE TEACHING OF ENGLISH Miss Lewis. 3

Prerequisites: Education 217, Psychology 211.

333. THE TEACHING OF LATIN 2-3

Prerequisites: Education 217, Psychology 211.



335. THE TEACHING OF MATHEMATICS 3  
Prerequisites: Education 217, Psychology 211, Mathematics 116 or 122.
339. THE TEACHING OF SPEECH Mr. Crocker. 2  
History of rhetorical thought, psychology of language, phonetics, the shaping of speech curriculum. Prerequisites: Education 217, Psychology 211.
341. THE TEACHING OF PUBLIC SCHOOL ART 4  
Prerequisites: Education 217, Psychology 211. (Offered alternate years; second semester, 1957-58).
343. THE TEACHING OF MODERN LANGUAGES Mr. F. L. Preston. 3  
Prerequisites: Education 217, Psychology 211. (Offered alternate years; 1956-57.)
- 345-346. SPECIAL PROBLEMS Staff. 2 or 3  
Independent work on selected topics under the guidance of staff members. Consent of instructor.
351. METHODS OF TEACHING PHYSICAL ACTIVITIES IN THE ELEMENTARY SCHOOLS Miss Shepard. 2  
Prerequisites: Education 217, Psychology 211.
352. METHODS OF TEACHING PHYSICAL ACTIVITIES IN THE HIGH SCHOOLS Mr. Yard. 4  
Prerequisites: Education 217, Psychology 211.
353. METHODS IN RECREATIONAL DANCE Miss Van Horn. 2  
Prerequisites: Education 217, Psychology 211.
- 409-410. SEMINAR IN MUSIC EDUCATION Mr. Hunter. 1  
Required of students doing practice-teaching in music.
415. STUDENT TEACHING IN THE MAJOR FIELD Director, and Staff. 3  
Eligibility: Residence at Denison for one year; an average grade of B in his teaching field; a recommendation from the department in which student expects to teach.
416. STUDENT TEACHING IN A MINOR FIELD  
Eligibility: Same as Education 415.

Note: Education 415 and 416 are offered both semesters. The student needs to take both courses, either concurrently or in consecutive semesters. However, a student may not take more than 15 semester-hours *including student teaching* during the first semester he seeks experience in this area. The 15-semester-hour maximum does

not apply to the second semester of student teaching. *The student will have a conference each Thursday at 4 p.m., during the first semester he takes student teaching.*

420. THE SCHOOL IN RELATION TO SOCIETY Mr. Nichols. 3

A consideration of the distinctive function or purpose of education in the social order and the bearing of this purpose on problems of organization and administration, the selection of subject matter, classroom procedures, and pupil activities.

445. METHODS OF TEACHING HEALTH EDUCATION 3

Prerequisites: Education 217, Psychology 211.

461-462. INDIVIDUAL WORK FOR HONORS Staff. 3

## ENGINEERING SCIENCE

A student interested in Engineering should major in Pre-Engineering, a transdepartmental major, or in a basic science such as mathematics, physics, or chemistry, his choice depending upon the branch of engineering he wishes to enter. Pre-Engineering credits earned at Denison are accepted by engineering schools. For further information see Combined Arts-Professional Courses for liberal arts-engineering arrangements. An interested student should consult the Director of Testing and Vocational Services or the Chairman of Mathematics or any of the sciences.

The following courses in Engineering Science may be elected by pre-engineering and other students:

101. STATISTICAL GRAPHS 2

Use of instruments, lettering, and tracing; construction of different types of charts and graphs used in statistical work. Not restricted to engineering students.

111. ENGINEERING DRAFTING Mr. H. King. 2

Use of instruments, simple projections, freehand sketching, geometric problems, conventional signs, and tracings. Recommended for non-engineering students, particularly those majoring in the sciences.

112. DESCRIPTIVE GEOMETRY Mr. H. King. 3

Conventional projection theories of drafting with problems and applications in point, line, and plane; intersection and development of surfaces. Prerequisite: 111.

115. MACHINE DRAWING Mr. H. King. 2

Elementary design and working drawings. Prerequisite: 111.

## ENGLISH

Mr. J. L. King, Mr. Downs (on leave first semester 1956-57), Mr. Shumaker, Mr. Mahood, Miss Shannon (on leave 1956-57), Mr. Bennett, Mr. Coffin (on leave first semester 1956-57), Miss Lewis, Mr. Nichol, Mr. Marshall, Mr. M. E. Brown, Mr. Hinkle, Miss Stanton (first semester only)

Senior Professor, Mr. King

Chairman (1954-57), Mr. Mahood

### MAJOR IN ENGLISH

#### I. General Requirements

A student majoring in this department must elect a minimum of 26 hours in English, including 211-212, and must have two college years or its equivalent of one modern foreign language.

General Education courses 11-12 *do not count as credit toward a major.*

#### II. Special Requirements

**MAJOR IN LITERATURE:** The general requirements above, including 321-322, and 14 to 24 semester hours of literature or writing (electives). Strongly recommended are 231-232 and 237; in some cases they may be required.

**MAJOR IN WRITING:** The general requirements above, and 346, and a minimum of 12 semester-hours of composition (electives). In the senior year the student must take 407-408 which involves an extended project in an area of composition.

#### 115. CORRECTIVE ENGLISH

Staff. 1

A review of the fundamentals of English composition, with practice in writing. *Does not count for credit in fulfilling the graduation requirement in Literature.* See Scholastic Requirements: Proficiency in English. (Offered both semesters.)

#### 211-212. ENGLISH LITERATURE

Staff. 3

A survey of English Literature from the beginning to the late 18th century (first semester); from the 18th century to the present (second semester).

#### 218. THE BIBLE AS LITERATURE

Mr. King. 2

#### 231-232. AMERICAN LITERATURE

Staff. 3

A survey of American Literature to the Civil War (first semester); from the Civil War to the present (second semester).

237. **ADVANCED COMPOSITION** Staff. 3  
Includes news writing. (Offered both semesters.)
257. **NARRATIVE WRITING** Mr. Bennett. 3  
(Offered first semester 1957-58.)
267. **ESSAY AND ARTICLE WRITING** Mr. Bennett. 3  
(Offered second semester 1956-57.)
277. **POETRY WRITING** Mr. Bennett. 3  
(Offered second semester 1957-58.)
287. **PLAY WRITING** Mr. Bennett. 3  
(Offered first semester 1956-57.)
- 321-322. **SHAKESPEARE** Mr. King. 3  
A study of Shakespeare and his times, the comedies and histories (first semester); the tragedies and later romances (second semester).
323. **MILTON AND THE 17TH CENTURY** Miss Lewis. 3  
A study of representative writers considered against the background of the social, political, and religious issues of the age. (Offered second semester 1957-58.)
324. **THE ROMANTIC MOVEMENT IN ENGLAND** 3  
A brief review of the movement in the 18th century, followed by a study of the works of Wordsworth, Coleridge, Byron, Shelley, and Keats. (Offered first semester 1956-57.)
326. **THE SHORT STORY** Mr. Shumaker. 3  
A study of the short story as a literary form, with analysis of typical examples.
329. **THE ELIZABETHAN DRAMA** Mr. Coffin. 3  
A study of the drama in England from 1580 to 1642 (exclusive of Shakespeare), with emphasis upon the works of Marlowe and Jonson. (Offered first semester 1957-58.)
330. **THE MODERN DRAMA** 3  
A study of drama from Ibsen to the present, with emphasis upon the works of British and American playwrights.
333. **CHAUCER** Mr. King. 3  
The life and times of Chaucer with a reading of the *Canterbury Tales*, *Troilus and Criseyde*, and some of the shorter poems.
335. **VICTORIAN POETS** Mr. Marshall. 2  
(Offered second semester 1956-57.)

339. DR. JOHNSON AND HIS CIRCLE Mr. Shumaker. 2  
A study of Johnson and other prose writers of the 18th century.  
(Offered first semester 1957-58.)
340. ENGLISH PROSE OF THE 19TH CENTURY Mr. Shumaker. 2  
A study of Carlyle, Ruskin, Macaulay, Arnold, Lamb, Hazlitt,  
Pater and others. (Offered first semester 1956-57.)
341. THE ENGLISH NOVEL Mr. Mahood. 2-3  
The development of the novel in England during the 18th and  
19th centuries. Additional outside reading for three credits.
342. ENGLISH AND AMERICAN NOVEL—1870 TO THE PRESENT Mr. Mahood. 2-3  
Additional outside reading for three credits.
- 343-344. READINGS IN EUROPEAN LITERATURE Mr. Downs. 3  
A study in comparative literature of selected complete major  
works in translation from Homer's *Iliad* to Silone and Sartre.
346. THE ENGLISH LANGUAGE Mr. Coffin. 3  
A study of the English language and its development.
348. THE CONTINENTAL NOVEL OF THE 20th CENTURY Mr. Mahood. 2  
A seminar dealing primarily with the works of Nobel Prize  
winners. (Offered second semester 1956-57.)
350. CONTEMPORARY LITERATURE Mr. Downs. 2-3  
20th century American, English, and, in translation, European  
Literature. Additional outside reading for three credits.
351. FOLKLORE AND AMERICAN CULTURE Mr. Coffin. 3  
(Offered first semester 1958-59.)
- 361-362. DIRECTED STUDY IN ENGLISH Staff. 3
- 371-372. LITERARY CRITICISM Mr. Brown. 2  
A study of major critics of literature from Plato and Aristotle  
to the present. The practical significance of their ideas will be ex-  
amined by a study of widely known poems, plays, and novels.
373. THE AMERICAN LITERARY RENAISSANCE Mr. Nichol. 2-3  
A seminar dealing with Poe, Emerson, Thoreau, Hawthorne, Mel-  
ville, and Whitman. Additional outside reading for three credits.  
(Offered first semester 1957-58.)

## 375. THE BEGINNINGS OF AMERICAN REALISM AND NATURALISM

Mr. Nichol. 2-3

A seminar dealing with Howells, Twain, James, Norris, Crane, and Dreiser. Additional outside reading for three credits. (Offered first semester 1956-57.)

## 407-408. SEMINAR IN WRITING

Staff. 3

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

THE TEACHING OF ENGLISH (See Education 331.)

## FAMILY LIFE

Mr. Crist, Mrs. Scott (part-time)

Chairman (1956-59), Mr. Crist

The courses in Family Life have a twofold purpose, namely, to aid men and women in preparation for marriage and family life, and to acquaint the student with the history and general social problems of the family. The courses are basic for prospective social workers, nurses, teachers, religious educators, recreational leaders, and other professional workers who deal with children and families, as well as for the student of general culture.

A student whose primary interest is Family Life should consider especially the following courses: Art 151, Biology 113, 224, 225, and 226, Chemistry 101-102, Economics 332, Geography 221, Government 211 and 212, Philosophy 321 and 326, Psychology 217 and 226, Religion 213 and Sociology 207, 307, 315.

Those contemplating graduate study in Family Life should obtain a reading knowledge of at least one foreign language.

## 211. EDUCATION FOR MARRIAGE AND FAMILY LIFE

Mr. Crist. 3

To acquaint the student with the findings of the biological, psychological, and social sciences as they relate to marriage and family life. (Offered each semester.)

## 313. THE FAMILY

Mr. Crist. 3

A study of the structure of the family as an institution and of its inter-relationships with other social institutions; changing economic and social functions of the family as seen in historical and cultural perspective. *Credit applies toward a major in Sociology.* Prerequisite: 211 or consent of instructor.

**314. FAMILY PROBLEMS****Mr. Crist. 3**

Emphasis is on the social-psychological aspects of inter-personal relationships within the family. The content is case-history oriented. Prerequisite: 211 or consent of instructor.

**415. THE NURSERY SCHOOL****Mrs. Scott. 3**

This course introduces the student interested in the young child to the principles and theories underlying education for the pre-school child and to techniques of observing young children and working with them as individuals and in groups. Two hours each week will be spent in the Granville Nursery School.

**GEOGRAPHY AND GEOLOGY****Mr. Mahard, Mr. Graham****Chairman (1955-58), Mr. Mahard****MAJOR IN GEOGRAPHY**

A student majoring in Geography is expected to take Geography 221, 226, 230, 232, 421-422, Geology 111, 112, 211, 312, 320, and additional recommended courses in the Sciences and Social Studies depending upon his vocational interest.

**GEOGRAPHY 221. PRINCIPLES OF GEOGRAPHY: PHYSICAL AND HUMAN****Mr. Mahard. 3**

Elements of the physical environment and their effects upon man.

**GEOGRAPHY 226. GEOGRAPHY OF THE UNITED STATES****Mr. Mahard. 4**

Physiographic provinces are studied in turn with emphasis upon origin of landscape features and the distribution of natural resources; textbook readings on human and economic factors.

**GEOGRAPHY 230. GEOGRAPHY OF SOUTH AMERICA****Mr. Mahard. 3**

Environmental factors and their significance in the affairs of South America. (Offered in 1956-57 and in alternate years.)

**GEOGRAPHY 232. GEOGRAPHY OF EUROPE****Mr. Mahard. 3**

Environmental factors and their significance in the affairs of Europe; emphasis is placed upon geographic factors which play a role in current events in Europe. (Offered in 1957-58 and in alternate years.)

**GEOGRAPHY 421-422. DIRECTED STUDIES****Mr. Mahard. 2-4**

Readings in geography selected to enhance students' geographic comprehension.

**GEOGRAPHY 461-462. INDIVIDUAL WORK FOR HONORS****3**

## MAJOR IN GEOLOGY

A student majoring in Geology is expected to take four years (eight courses) in geology plus Geology 320, 400, and Geography 226. In addition a minimum of 24 semester-hours is required in Mathematics, Chemistry, Physics, and Engineering Science.

**GEOLOGY 111. PHYSICAL GEOLOGY** Mr. Mahard, Mr. Graham. 4

Study of the earth's crustal features and the physical processes which build and modify these features. Emphasis placed on the effects of these phenomena upon man's activities. Laboratory and field work.

**GEOLOGY 112. HISTORICAL GEOLOGY** Mr. Mahard, Mr. Graham. 4

History of the origin and development of the rocks and geologic structures of North America with accompanying emphasis upon the development of the animal and plant kingdoms. Laboratory and field work. Prerequisite: 111.

**GEOLOGY 211. MINERALOGY** Mr. Graham. 3

Identification of chief rock-forming and ore minerals. Crystal systems are studied. Minerals are studied in hand specimen, also as fragments and in thin-sections with polarizing microscope. Introduction to the study of ore deposits.

**GEOLOGY 212. PETROLOGY** Mr. Graham. 3

Identification of chief rock kinds in hand specimen; limited work with thin-sections. Classification of igneous and sedimentary rocks considered. Introduction to sedimentation and metamorphism.

**GEOLOGY 311. STRUCTURAL GEOLOGY** Mr. Graham. 3

Study of movements of solid rock and molten rock and their effect upon crustal features of the earth. Prerequisites: Geology 111, 112, and Geography 226.

**GEOLOGY 312. GEOMORPHOLOGY AND MAP INTERPRETATION** 3

Study of the origin of landscape features and the interpretation of topographic maps. Prerequisites: Geology 111, 112, and Geography 226.

**GEOLOGY 313. PALEONTOLOGY** Mr. Graham. 3

A general study of fossil invertebrates, involving a comparison of the morphology of living and extinct types. Includes a study of the classification and geologic history of the various phyla.

**GEOLOGY 314. STRATIGRAPHY AND SEDIMENTATION** Mr. Graham. 3

A study of the principles of stratigraphy and correlation of sedimentary sequences in North America. Includes a study of the processes of sedimentation and the environments of deposition.



**GEOLOGY 320. FIELD TRIP**

Staff. 2

A spring vacation automobile trip across the physiographic provinces of Eastern United States. A complete section through the Appalachian Provinces, the Triassic Lowland, and the Coastal Plain is studied.

**GEOLOGY 400. FIELD COURSE**

6

A major in Geology must register for a summer field course offered by any one of a number of approved universities, such as the University of Wyoming, Indiana University, and Miami University in Ohio. Upon the successful completion of the course, he receives credit transferable to his record at Denison.

**GEOLOGY 411-412. DIRECTED STUDIES**

2-4

Individual reading and laboratory work in a student's field of interest within geology. Work in petroleum geology is included.

**GEOLOGY 461-462. INDIVIDUAL WORK FOR HONORS**

3

**GOVERNMENT**

Mr. Stephens, Mr. Morrow, Mr. Wirt, Mr. Cory

Chairman (1956-59), Mr. Stephens

**MAJOR IN GOVERNMENT**

A student majoring in Government is required to take 211, 212, 214, 421-422, and at least 18 semester-hours from other departmental courses. A major is expected to take Economics 211-212 and at least six semester-hours in History. Pre-law students should also take Economics 223-224 and History 335-336. Majors planning to do graduate study and those expecting to enter the foreign service must demonstrate a reading knowledge of a modern foreign language by the beginning of the senior year. Non-majors may take advanced courses with the consent of the instructor.

**211. AMERICAN NATIONAL GOVERNMENT**Mr. Stephens, Mr. Wirt,  
Mr. Cory. 3

Study of the development, structure, and operation of our national government.

**212. COMPARATIVE GOVERNMENT**

Mr. Stephens, Mr. Wirt. 3

A comparative study of different types of modern constitutions in relation to their social, economic, and ideological backgrounds. Great Britain, France, and the Union of Soviet Socialist Republics will be examined.

**214. NATIONAL POLICIES OF THE FEDERAL GOVERNMENT** Staff. 3

Analysis of the growth of federal administrative structure. Examination of policies of regulation and promotion of business, agriculture, labor, etc., plus the newer quasi-business activities involved in the TVA, AEC, etc. Emphasis is upon current programs, pressures and problems.

**231-232. BUSINESS LAW** Mr. Morrow. 3

A survey of law as applied to business, covering the field of contracts, property, sales, negotiable instruments, agency, partnerships, corporations, insurance, bankruptcy, and labor relations. *This may not be counted toward a major in Government.*

**301. POLITICAL PARTIES AND POLITICS** Mr. Wirt. 3

Party history in terms of economic and social movements. Analysis of party structure, including group composition, machinery, and finances. Interpretation of party operations in the electoral process and government functions; nature of party responsibility.

**302. PUBLIC OPINION AND POLITICAL PROCESSES** Mr. Wirt. 3

Analysis of the nature of public opinion, how it is revealed, crystallized, and manipulated. Within this framework such items are studied as opinion polling, institutions of social control, interest group activity and policies, the channels of communication, propaganda techniques, and non-rational factors in politics.

**311. INTERNATIONAL RELATIONS** Mr. Wirt, Mr. Cory. 3

Examination of patterns of nation-state relations. Nationalism, sovereignty, and national power are revealed as foundations. Diplomacy and political, military and economic warfare are seen as modes of power. International law, balance of power, collective security, and peaceful settlement are evaluated as controls of inter-state relations.

**312. STATE AND LOCAL GOVERNMENT** Mr. Wirt. 3

This course concentrates upon forms of governing with extended discussion of the ends of governing. Attention is given to current tendencies: centralization of power in state and national centers, strengthening of the executive, new face of civil liberties, and new functions of modern state government.

**341. INTERNATIONAL LAW AND INSTITUTIONS** Mr. Stephens. 3

Fundamentals of international law; its current development and practical value. Legal and structural analysis of contemporary international organizations, alliances, and economico-political projects.

## 345. SOVIET GOVERNMENT AND DOMESTIC POLICIES Mr. Wirt. 3

Soviet institutions are studied as means of coercion and persuasion available to modern totalitarian states, i.e., use of party, army, industry, unions, and cultural groups as instruments of oligarchical power. The relationship of state to worker and farmer, intellectual and scientist, party member and soldier is observed within the concepts of Marx, Lenin, and Stalin.

## 346. INTERNATIONAL ORGANIZATION Mr. Cory. 3

An analysis of the place and potentialities of international organizations (United Nations, Organization of American States, European Federation) in international politics and economics. Evaluation of international efforts for peace through collective security, disarmament, and conciliation; efforts to raise living standards through technical assistance, capital development, and the encouragement of trade; efforts to increase the effectiveness of international government.

## 350. WASHINGTON FIELD TRIP Mr. Wirt. 2

A trip to observe the federal government in operation and to discuss significant issues with top officials. After intensive preparation, students spend the spring vacation in conference with policy advisers, makers, and administrators. Consent of instructor.

## 361-362. DIRECTED STUDY IN GOVERNMENT Staff. 3

## 403. ANCIENT AND MEDIEVAL POLITICAL THOUGHT Mr. Stephens. 3

The basic theories of European government from the time of Plato to Machiavelli.

## 404. MODERN AND CONTEMPORARY POLITICAL THOUGHT

Mr. Stephens. 3

The chief theories of European and American government from Machiavelli to the present.

## 412. INTRODUCTION TO THE LAW Mr. Morrow. 3

The history and meaning of law; the development of legal reasoning and philosophy; instrumentalities for the protection of rights; and the structure of the legal profession. *For pre-law students.*

## 421-422. SEMINAR Staff. 2

Designed to give the student an opportunity to learn the techniques and methodology of sound research. The student will explain and defend a thesis before the other members of the seminar. *Required of all seniors majoring in Government.*

## 425. CONSTITUTIONAL LAW

Mr. Morrow. 4

The American Constitutional system through the decisions of the Supreme Court; relationships between state and federal governments; recent trends in jurisprudence.

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

## HISTORY

Mr. Utter, Mr. Stratton, Mr. Southgate, Mr. Pollock, Mr. Chessman, Mr. Seager  
(on leave 1956-57), Mr. W. Preston, Mr. Watson, Mr. Held

Senior Professor, Mr. Utter

Chairman (1954-57), Mr. Chessman

## MAJOR IN HISTORY

A minimum of 24 hours in History is required for a major. Courses specifically required include: 221-222 and 211-212, and two semester courses in which a research paper is involved. *General Education course 21-22 does not count toward the major.*

By the beginning of the senior year, majors preparing for graduate study will be expected to demonstrate a reading knowledge of a modern foreign language.

211-212. MODERN EUROPE Mr. Pollock, Mr. Watson, Mr. Held. 3

A survey of the major political, economic, diplomatic, social, and cultural developments in Europe since the 17th Century.

## 221-222. AMERICAN CIVILIZATION

Mr. Utter, Mr. Chessman, Mr. Seager, Mr. Preston. 4

A comprehensive survey of the history of America from colonial times to the present. Political, diplomatic, social, economic, and intellectual developments will be included.

## 319. EUROPE 1789-1870

Mr. Pollock. 3

A study of the forces which have shaped modern European history. Social, religious, and cultural developments are considered in relation to the economic and political background. (Not offered in 1956-57.)

## 321. AMERICAN ECONOMIC HISTORY

Mr. Preston. 3

The rise of modern industrial capitalism in the United States, with an emphasis upon the relationship of economic and political developments. Prerequisite: 221-222 or consent of instructor.

## 324. THE AMERICAN FRONTIER

Mr. Utter. 3

The frontier in American economic, political, and cultural development. Prerequisite: 221-222 or consent of instructor.

## 325. HISTORY OF SPANISH AMERICA

Mr. Stratton. 3

After a brief survey of the institutions of colonial Spanish America and the problems of the independence period, this course will concentrate on the national development of Argentina and Mexico.

Special attention will be given to the formulation of political institutions, economic development, land reforms, and the relationships of church and state. (Not offered in 1956-57.)

**327. AMERICAN DIPLOMACY IN THE 19th CENTURY 3**

A survey of American diplomatic affairs emphasizing the extension of continental boundaries; origin and development of American attitudes toward isolation and neutral rights; the idealistic basis of foreign policy decisions. (Not offered in 1956-57.)

**328. THE UNITED STATES AS A WORLD POWER 3**

A survey of American foreign policy in the 20th century with emphasis on the power role of the United States in the international politics of European, Latin-American, and Far Eastern areas. Prerequisite: 327. (Not offered in 1956-57.)

**330. AMERICAN SOCIAL AND INTELLECTUAL HISTORY Mr. Chessman. 3**

A study of selected problems in American social and intellectual development. Prerequisite: 221-222 or consent of instructor.

**335-336. HISTORY OF ENGLAND Mr. Southgate. 3**

A study of the social and cultural history and of the development of the English constitution against the background of political history from 1066 to 1776.

**337. MODERN BRITAIN Mr. Watson. 3**

A political, social, and cultural history of Great Britain from 1782 to the present.

**339-340. HISTORY OF THE FAR EAST Mr. Stratton. 3**

Survey of the civilizations of India, China, and Japan from their origins to the present. The second semester will be devoted to their contacts with the West and the internal transformations of the last century.

**349-350. THE MIDDLE AGES AND THE RENAISSANCE Mr. Southgate. 3**

The history of European ideas and institutions from the Fall of Rome to the Reformation. Registration must be for both semesters. (Not offered in 1956-57.)

**352. EARLY MODERN EUROPE: THE 17th and 18th CENTURIES Mr. Held. 3**

A study of the period from 1600 to 1789, emphasizing the growth of the modern state, the scientific advances of the 17th century, and the intellectual movement in the old regime leading to the French Revolution. (Not offered in 1956-57.)

**355. SURVEY OF RUSSIAN HISTORY**

Mr. Held. 3

A study of the emergence and growth of the Russian state, emphasizing the political, economic, and intellectual development from Peter the Great to the outbreak of the Revolution of 1917, the course of the Revolution, and the subsequent development of the Soviet state since 1921. (Not offered in 1956-57.)

**361-362. DIRECTED STUDY IN HISTORY**

Staff. 3

**415-416. SENIOR TUTORIAL IN HISTORY**

Staff. 3

A senior course involving directed study and the preparation of research papers. Work will be directed on an individual basis with the two-fold purpose of introducing the student to the principles and methods of historical research and of correlating the material in the major field.

**431-432. SEMINARS IN HISTORY**

Staff. 3

Seminars open to superior students with the consent of the instructor. These courses will involve the preparation of a research paper, and will be offered (as registration warrants) in the fields of European Imperialism, the Old Northwest, American Diplomatic History, Tudor History, Victorian England, Far Eastern History, African History, and Modern European Intellectual History.

**461-462. INDIVIDUAL WORK FOR HONORS**

Staff. 3

## MATHEMATICS

Mr. Kato, Mr. Wiley (part-time), Miss Wetzel, Mr. Sterrett, Mr. Grudin  
(on leave first semester 1956-57), Mr. Seabury

Senior Professor, Mr. Kato

Chairman (1954-57), Miss Wetzel

## MAJOR IN MATHEMATICS

The basic work in mathematics is offered under Sequence I or Sequence II. The second sequence is designed for the stronger students in Mathematics and for the major in this or a related field.

Minimum requirements for a major in Mathematics consist of (a) General Education course 40a, Mathematics 116, 215-216, 459-460, and three additional courses; or (b) Mathematics 121-122, 221-222, 459-460, and two additional courses. Courses 108, 203, 205-206, and Education 335 may not be included in meeting minimum requirements.

A student majoring in Mathematics with emphasis upon statistics will take courses 307-308 and 407-408.

Those desiring recommendation for graduate study in Mathematics must take courses 321-322. The courses 307-308 and 353, and a reading knowledge of French and German are strongly recommended.

Both 356 and 358 are recommended for those planning to teach Mathematics in secondary schools.

All majors will elect, after consultation with the chairman of the department, a minimum of 12 hours in subjects related to Mathematics.

#### Sequence I

General Education course 40a serves as an introduction to mathematical analysis.

#### 116. ELEMENTARY MATHEMATICAL ANALYSIS Staff. 4

Continuation of General Education course 40a. Algebra, trigonometry, and analytic geometry are studied from the function viewpoint. The elementary ideas of The Calculus are introduced at the beginning and used throughout the course.

#### 215-216. THE CALCULUS Staff. 4

Ordinary and partial derivatives, single and multiple integrals, infinite series and applications. Prerequisite: 116 or equivalent.

#### 315. ADVANCED CALCULUS Mr. Koto. 4

Selected topics including partial differentiation, improper integrals, line and surface integrals, infinite series. Prerequisite: 216 or 222.

#### Sequence II

#### 121-122. ELEMENTARY MATHEMATICAL ANALYSIS Mr. Wiley, Mr. Koto. 5

Introduces elementary ideas of The Calculus at the start and uses them throughout the course in an integrated study of topics in algebra, plane trigonometry, and analytic geometry, including an introduction to solid analytic geometry.

#### 221-222. THE CALCULUS Staff. 5

Includes such topics as partial differentiation, multiple integrals, and expansion of functions into infinite series. Prerequisite: 122.

#### 321-322. ADVANCED ANALYSIS Miss Wetzel. 3

The principal topics are partial differentiation, Riemann and Stieltjes integrals, indeterminate forms, infinite series, improper integrals, Fourier series, and Laplace transform. Prerequisite: 222 or consent of instructor.

## Sequence in Statistics

## 307-308. MATHEMATICS OF STATISTICS

Miss Wetzel. 3

Introduction to the theory and applications of mathematical statistics, including the topics: frequency distributions of one and two variables, sampling theory, elementary probability, multiple and partial correlation, and generalized frequency distributions. Prerequisite: 222, or consent of instructor.

## 407-408. ADVANCED MATHEMATICS OF STATISTICS

Miss Wetzel. 3

Continuation of topics considered in 307-308, with special emphasis upon modern statistical methods. Prerequisite: 308.

## Non-Sequence Courses

## 108. MATHEMATICS OF FINANCE

Staff. 3

Interest and annuities, life insurance, and reserves. Prerequisite: General Education course 40a or Mathematics 121 or consent of instructor.

## 203. SOCIAL STATISTICS

Staff. 3

Adapted to students in Personnel Administration, Psychology, and Sociology.

## 205-206. ECONOMIC STATISTICS

Mr. Sterrett. 3

Adapted to students in Economics. Prerequisite: General Education course 40a or 121.

## 311-312. TECHNICAL MECHANICS

Mr. Sterrett. 3

The principles of applied mechanics with reference to their application to engineering. Prerequisites: Mathematics 216, or 222, Physics 121-122. (Offered in 1956-57 and in alternate years.)

## 353. DIFFERENTIAL EQUATIONS

Mr. Kato. 4

Introductory course. Prerequisite: 216 or 222.

## 356. MODERN GEOMETRY

Mr. Kato. 4

Topics will be selected from projective and non-Euclidean geometry. (Offered in second semester 1956-57.)

## 358. MODERN ALGEBRA

Mr. Kato. 4

Introduction to concepts of Algebra: Number system, theory of numbers, determinants, matrices, domains, rings. Consent of instructor. (Offered in second semester 1957-58.)

## 361-362. DIRECTED STUDY IN MATHEMATICS

Staff. 3



453. VECTOR ANALYSIS WITH INTRODUCTION TO TENSOR  
ANALYSIS

Mr. Kato. 4

Prerequisite: 315 or 321 or 353, and Physics 121-122.

459-460. SENIOR SEMINAR

Staff. 1.5

Advanced topics, based on the student's knowledge and interests. Meets two hours each week. Credit is withheld until completion of both semesters.

461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

THE TEACHING OF MATHEMATICS (See Education 335.)

## MODERN LANGUAGES

Mr. Secor, Mr. F. L. Preston, Mr. Bancroft, Mr. Steele, Mr. Stern, Mr. Stabler  
(on leave 1956-57), Mr. Emont, Mr. Jonaitis  
Chairman (1955-58), Mr. Secor

### MAJOR IN MODERN LANGUAGES

A major in this department must complete a minimum of 24 semester-hours above the first-year level in the language. A maximum of 52 semester-hours is allowed providing not more than 36 semester-hours are in one language, not counting elementary courses. At least a reading knowledge of a second modern language is highly desirable for a major. A major's sequence of courses is arranged in conference with the chairman of the department.

*No credit is given for less than a year of beginning work.*

A student has access to the Language laboratory for aural training by record and by radio.

THE TEACHING OF MODERN LANGUAGES (See Education 343.)

## FRENCH

Mr. Secor, Mr. Preston, Mr. Emont, Mr. Jonaitis

101-102. AREA STUDY: FRANCE

Mr. Secor. 2

The cultural background and significant contemporary sociological and economic problems of the area; its position in the affairs of the world today, and its relation to the United States. Offered in the French language.

103-104. INTRODUCTION TO THE FRENCH LANGUAGE

Staff. 4

**211-212. INTERMEDIATE FRENCH****Staff. 3**

Reading, grammar review, and conversation. Prerequisite: Two years of high school French or one year of college French.

**213-214. CONVERSATION AND COMPOSITION****Staff. 2**

To accompany 211-212 for those students who wish to develop greater language skill. May be taken either semester or both semesters.

**311-312. AN INTRODUCTION TO FRENCH LITERATURE  
AND CIVILIZATION****Staff. 3**

First semester: Readings from such modern writers as Gide, Sartre, Duhamel, Colette, Saint-Exupéry, and Proust. Second semester: Readings from such authors as Molière, Corneille, Racine, Voltaire, Hugo, Balzac, and Rabelais. Prerequisite: Three or four years of high school French or two years of college French.

**313-314. ADVANCED CONVERSATION****Staff. 2**

Composition as needed. Prerequisite: 311-312. (Offered in 1957-58 and in alternate years.)

**317. THE CLASSIC DRAMA****Mr. Preston. 3**

Corneille, Racine, Molière. Prerequisite: 311-312. (Offered in 1956-57 and in alternate years.)

**318. EIGHTEENTH CENTURY LITERATURE****Mr. Preston. 3**

Voltaire, Rousseau, Montesquieu, Diderot, and the leading playwrights and novelists of the century. Prerequisite: 311-312. (Offered in 1956-57 and in alternate years.)

**319. NINETEENTH CENTURY PROSE AND POETRY****Mr. Secor. 3**

Novel: Chateaubriand, through Balzac, Flaubert, de Maupassant to contemporary writers. Critics: Sainte Beuve, Taine, Renan. Poets from the Romanticists through the Symbolists. Prerequisite: 311-312. (Offered in 1957-58 and in alternate years.)

**320. NINETEENTH CENTURY THEATRE****Mr. Secor. 3**

The Romantic, Realistic-Social, Naturalistic Schools, and modern trends. Prerequisite: 311-312. (Offered in 1957-58 and in alternate years.)

**361-362. DIRECTED STUDY IN FRENCH****Staff. 3****415-416. ADVANCED FRENCH GRAMMAR AND WRITING****Mr. Secor. 2**

(Offered in 1956-57 and in alternate years.)

**461-462. INDIVIDUAL WORK FOR HONORS****Staff. 3**

## GERMAN

Mr. Stern, Mr. Jonaitis

101-102. AREA STUDY: GERMANY Mr. Stern. 2

The cultural background and significant contemporary sociological and economic problems of the area; its position in the affairs of the world today, and its relation to the United States. Offered in the English language.

111-112. INTRODUCTION TO THE GERMAN LANGUAGE Staff. 4211-212. INTERMEDIATE GERMAN Staff. 3

Reading, grammar review, and conversation. Prerequisite: Two years of high school German or one year of college German.

213-214. CONVERSATION AND COMPOSITION Staff. 2

This course accompanies 211-212 for those students who wish to develop greater language skill. May be taken either semester or both semesters.

215-216. SCIENTIFIC GERMAN LITERATURE Mr. Stern. 3

Prerequisite: 111-112, or two years of high school German, and consent of instructor.

313-314. ADVANCED CONVERSATION Mr. Stern. 3

Advanced conversation. Composition as needed. Prerequisite: 213-214 or 211-212 or consent of instructor.

317. GERMAN CLASSICS Mr. Stern. 3

Lessing, Schiller, and the classical German drama. Prerequisites: 212, 214, or 216, or three years of high school German. (Offered in 1957-58 and in alternate years.)

318. GOETHE'S WORKS Mr. Stern. 3

Selections. Prerequisites: 212, 317, or 319 or consent of instructor. (Offered in 1957-58 and in alternate years.)

319. NINETEENTH CENTURY PROSE Mr. Stern. 3

Beginning with the Romanticists and including recent literary movements represented by Hauptmann, Sudermann, Schnitzler, Thomas Mann, and other leading writers. Prerequisite: Same as for 317. (Offered in 1956-57 and in alternate years.)

320. NINETEENTH CENTURY DRAMA Mr. Stern. 3

Kleist, Grillparzer, Hebbel, Hauptmann, Sudermann, and others. Prerequisite: Same as for 318. (Offered in 1956-57 and in alternate years.)

- 361-362. DIRECTED STUDY IN GERMAN Staff. 3
415. SURVEY OF GERMAN LITERATURE BEFORE 1700 Mr. Stern. 2  
Prerequisite: Any 300-course or any two 200-courses, including 211, 212.
416. SURVEY OF GERMAN LITERATURE AFTER 1700 Mr. Stern. 2  
Prerequisite: Same as for 415.
- 461-462. INDIVIDUAL WORK FOR HONORS Staff. 3

## ITALIAN

- 111-112. INTRODUCTION TO THE ITALIAN LANGUAGE 4  
(Offered upon demand.)

## PORTUGUESE

- 111-112. INTRODUCTION TO THE PORTUGUESE LANGUAGE 4  
(Offered upon demand.)
- 211-212. INTERMEDIATE PORTUGUESE 3  
(Offered upon demand.)

## SPANISH

Mr. Bancroft, Mr. Steele, Mr. Emont

- 101-102. AREA STUDY: LATIN AMERICA Mr. Bancroft. 2  
The cultural background and significant contemporary sociological and economic problems of the area; its position in the affairs of the world today, and its relation to the United States. Offered in the English language.
- 111-112. INTRODUCTION TO THE SPANISH LANGUAGE Staff. 4
- 211-212. INTERMEDIATE SPANISH Staff. 3  
Reading, grammar review, and conversation. Prerequisite: Two years of high school Spanish or one year of college Spanish.
- 213-214. CONVERSATION AND COMPOSITION Mr. Steele. 2  
To accompany 211-212 for those students who wish to develop greater language skill. May be taken either semester or both semesters.

**311-312. INTRODUCTION TO SPANISH LITERATURE AND CIVILIZATION****Mr. Steele. 3**

Readings from leading Spanish literary figures including Lope de Vega, Cervantes, Pérez Galdós, and others; and a study of the outstanding figures and periods of Spanish culture. Prerequisite: Three or four years of high school Spanish or 211-212.

**313. COMMERCIAL SPANISH****Mr. Bancroft. 2**

Letters and forms used in business. Prerequisite: 211-212 or equivalent. (Offered in 1956-57 and in alternate years.)

**314. ADVANCED CONVERSATION****Mr. Bancroft. 2**

Composition as needed. Prerequisite: 213-214, or 211-212 or consent of instructor. (Offered in 1956-57 and in alternate years.)

**317. DRAMA OF THE GOLDEN AGE****Mr. Steele. 3**

Leading playwrights and their chief works: Lope de Vega, Calderón de la Barca, Tirso de Molina, Ruiz de Alarcón, Moreto and Rojas Zorrilla. Prerequisite: 311-312. (Offered in 1957-58 and in alternate years.)

**319. SPANISH NOVEL****Mr. Bancroft. 3**

The development of the novel in Spain and Spanish America from its beginning to the present time. Prerequisite: 211-212 or 311-312. (Offered in 1957-58 and in alternate years.)

**320. MODERN SPANISH DRAMA****Mr. Steele. 3**

Beginning with the Neo-Classic drama and including the more recent literary movements in Spain and Spanish America. Prerequisite: 311-312. (Offered in 1957-58 and in alternate years.)

**323-324. SPANISH-AMERICAN LITERATURE AND CIVILIZATION****Mr. Bancroft. 3**

Readings from representative writers beginning with the Colonial period and including the present time with emphasis on civilization as reflected in them. Prerequisites: 311-312 for majors; 211-212 for non-majors. Recommended: History 325 and Geography 230. (Offered in 1956-57 and in alternate years.)

**361-362. DIRECTED STUDY IN SPANISH****Staff. 3****414. ADVANCED COMPOSITION AND PHONETICS****Mr. Bancroft. 3**

(Offered in 1957-58 and in alternate years.)

**461-462. INDIVIDUAL WORK FOR HONORS****Staff. 3**

## MUSIC

Mr. Eschman, Mr. Stark, Mr. Gelfer, Mr. H. Larson, Miss Haury  
 Mr. Miller, Mr. Hunter, Mrs. Barlow, Mr. Conkling  
 Emeritus Professor and Chairman (1954-57), Mr. Eschman

## MAJOR IN MUSIC

All courses listed grant credit, as indicated, toward the Bachelor of Arts degree, the Bachelor of Music degree, or the Bachelor of Music (Music Education). Any student in the University may elect courses to a maximum of 40 semester-hours (including four hours in Ensemble Music) under the B.A. degree, 88 hours under the Mus.B. degree, or 68 hours under the Bachelor of Music (Music Education). Those who are studying for a degree in Applied Music or Music Education will pay the regular college tuition but no additional charges for private lessons. (For costs to others, see Expenses.)

## 103-104. CHOIR, ORCHESTRA, BAND OR ENSEMBLE TRAINING

Mr. Eschman, Mr. Larson, Mr. Gelfer, Mr. Miller, Mr. Hunter. 1

Three hours are required for one hour of college credit each semester, one being in Concert Choir, Orchestra, Band, or Mixed Choir, the others are elective ensemble music.

## 105-106. OPERA WORKSHOP

Mr. Larson. 1

A course in the history and performance of operas.

## 107-108. CHAMBER MUSIC WORKSHOP

Mr. Gelfer. 1

A course in the style and performance of chamber music.

## 111-112. FUNDAMENTAL MUSICIANSHIP

Mr. Eschman. 1 or 2

Required of all freshmen majoring in Music. Rhythmic, melodic, and harmonic dictation, sight-singing, solfeggio and keyboard training. (One hour of credit for A.B. students; two hours of credit with additional assignments for Mus.B. students.)

## 121-122. HARMONY

Mr. Eschman. 3

Required of all freshmen majoring in Music.

## 201. HISTORY OF MUSIC TO THE 18th CENTURY

Mr. Stark. 3

Alternates with 311-312. (Not offered in 1956-57.)

## 202. HISTORY OF MUSIC FROM THE 18th CENTURY TO THE PRESENT TIME

Mr. Stark. 3

## 203-204. CHOIR, ORCHESTRA, BAND OR ENSEMBLE TRAINING

Mr. Eschman, Mr. Larson, Mr. Gelfer, Mr. Miller, Mr. Hunter. 1

- 205-206. APPRECIATION OF MUSIC Mr. Stark. 2  
Offered without prerequisites in musical training or experience.
- 211-212. ADVANCED MUSICIANSHIP Mr. Stark. 2  
Prerequisite: 111-112.
- 221-222. ADVANCED HARMONY Mr. Eschman. 3  
Increased vocabulary in composition. Prerequisite: 121-122.
- 303-304. TERMINOLOGY AND CONDUCTING Mr. Hunter. 1  
Alternates with 305, 306. (Not offered in 1956-57.)
305. ORCHESTRATION Mr. Hunter. 1  
Alternates with 303.
306. SCORING FOR BAND Mr. Hunter. 1  
Prerequisite: 305.
- 311-312. MUSICAL FORM Mr. Eschman. 2  
Analysis of the principal instrumental forms. Alternates with 201-202.
314. SURVEY OF PIANO LITERATURE Miss Haury. 2  
A study of the development of keyboard music from the 16th century through contemporary music.
- METHODS IN MUSIC EDUCATION Mr. Hunter  
The psychology and problems of teaching public school music applied to present day practices. See Education 315, 316, 409-410.
- 331-332. COUNTERPOINT Mr. Stark. 3  
The principles of harmony applied to the melodious treatment of two or more voice parts in combination. Prerequisite: 221-222, and some proficiency in piano playing.
- 441-442. COMPOSITION Mr. Eschman. 2  
Composition of vocal and instrumental works in strict and free styles. Prerequisite: 221-222 and some proficiency in piano or organ playing.
- 461-462. INDIVIDUAL WORK FOR HONORS  
CLASS LESSONS IN APPLIED MUSIC: Staff. 3
141. WOODWIND INSTRUMENTS CLASS Mr. Hunter. 1  
Class instruction for majors in Music Education.
142. BRASS INSTRUMENTS CLASS Mr. Hunter. 1  
Class instruction for majors in Music Education.

## 151-152. STRING INSTRUMENTS CLASS

Mr. Gelfer. 1

Class instruction for majors in Music Education.

## 161-162. VOICE CLASS

Mr. Larson. 1

Class lessons in voice. Recommended for the improvement of the speaking as well as the singing voice.

PRIVATE LESSONS IN ORGAN, PIANO, VIOLIN, VIOLONCELLO,  
VOICE, AND WIND INSTRUMENTS (For credit, see below.)

Instruction is in private lessons and the need of the individual student at any level of instruction is met.

## MAJOR IN APPLIED MUSIC

Credit in Applied Music to a total of eight semester-hours may be obtained toward the B.A. degree by a major in any department. A major in Applied Music may elect 16 hours in Applied Music, and 16 hours in Applied Music are required in the Bachelor of Music (Music Education) degree. One credit is given for one lesson a week and one hour of practice a day. Two credits are given for two lessons a week and two hours of practice daily. The former will be given the name of the subject: Piano, etc., and the numbers 111-112, 211-212, 311-312, 411-412 depending upon the year of study. The two-hour credit courses will be numbered 121-122, 221-222, etc.

In Applied Music 48 semester-hours are required for the Bachelor of Music degree in performance major. A student must register for Piano, Voice, Violin, Organ, Wind Instruments, or Violoncello: 131-132, 231-232, etc., three hours of credit, 141-142, 241-242, etc., four hours of credit. (In each case the first digit of the course-number indicates the year, the second the number of credits, and the third digit, the semester in which the course was taken.)

## PHILOSOPHY

Mr. Titus, Mr. Hepp, Mr. Keller

Senior Professor, Mr. Titus

Chairman (1954-57), Mr. Hepp

## MAJOR IN PHILOSOPHY

A major in Philosophy requires 24 semester-hours, preferably in sequence, the courses to be selected in consultation with the members of the staff on the basis of the interests and needs of the student. *The basic course in Logic, titled Reflective Thinking, is General Education course 40b and is required of majors.*



303. LIVING ISSUES IN PHILOSOPHY Mr. Titus. 3  
Introduction to philosophy with emphasis upon present-day problems. The student is encouraged to integrate the various branches of knowledge into a workable philosophy of life. Not open for credit to students who have taken General Education course 18. (This course with Religion 217 fulfills the requirement for General Education course 81-2.)
321. ETHICS FOR TODAY Mr. Titus. 2, 3, 4  
A study of the development, nature, and theories of morality with special emphasis given to present-day problems of personal and social morality. Open to sophomores by consent of instructor. (Consent required to register for 4 hours' credit.)
- 323-324. MODERN SOCIAL PHILOSOPHIES: Year Course Mr. Titus. 3  
A more thorough study of modern social philosophies. (See 326 for content.) Prerequisite: 321 or consent of instructor; 323 is prerequisite for 324.
326. MODERN SOCIAL PHILOSOPHIES: One Semester Mr. Titus. 2, 3, 4  
Examination of the social philosophy underlying democracy, capitalism, the consumers' cooperative movement, democratic socialism, communism, fascism, etc. Prerequisite: 321 or junior standing. (Consent required to register for 4 hours' credit.)
327. THE PHILOSOPHY OF CIVILIZATION Mr. Titus. 3  
The sources of Western civilization and recent philosophies of civilization as set forth by Spengler, Sorokin, Schweitzer, Toynbee, Northrop, and others. Prerequisite: 326 or junior standing or consent.
331. HISTORY OF PHILOSOPHY Mr. Hepp. 3  
Investigation of origins of Western philosophy and science, followed by first-hand study of philosophical classics from Plato and Aristotle to Augustine and Thomas Aquinas. (Offered in 1956-57 and in alternate years.)
332. HISTORY OF PHILOSOPHY Mr. Hepp. 3  
Modern philosophies which have shaped the contemporary mind. First-hand acquaintance with the philosophical classics from Descartes to Kant. (Offered in 1956-57 and in alternate years.)
333. NINETEENTH CENTURY PHILOSOPHY Mr. Hepp. 3  
Work of such philosophers as Hegel, Schopenhauer, Comte, J. S. Mill, Nietzsche, and Bergson, and their relations to the social, scientific, and religious thinking of the period. Consent of instructor. (Offered in 1957-58 and in alternate years.)

**334. CONTEMPORARY THOUGHT****Mr. Hepp. 3**

A seminar on present-day philosophical problems and contemporary movements such as instrumentalism, neo-Thomism, logical positivism, and existentialism. Consent of instructor. (Offered in 1957-58 and in alternate years.)

**361-362. DIRECTED STUDY IN PHILOSOPHY****Staff. 3****401. PHILOSOPHY OF RELIGION****Mr. Titus. 3**

A seminar on the origin, development, nature, and problems of religion, and the types of religious philosophy. Consent of instructor.

**403. PHILOSOPHY OF SCIENCE****Mr. Hepp. 3**

An examination of the nature of man's scientific interest and of philosophical issues arising out of work in the sciences. Prerequisites: senior standing and either a science major or completion of General Education requirements in Life Science and Physical Science. Open to qualified juniors by consent.

**461-462. INDIVIDUAL WORK FOR HONORS****Staff. 3**

## PHYSICAL EDUCATION

**MEN**—Mr. Yard, Mr. Jenkins, Mr. Piper, Mr. Meyer, Mr. Shannon, Mr. Swinderman  
Chairman (1956-59), Mr. Yard

**WOMEN**—Miss Shepard, Mrs. Northrop, Miss Ross, Miss VanHorn, Miss Sanborn  
Chairman (1956-59), Miss Shepard

### REQUIRED COURSES FOR MEN

Physical Education is required of all non-veteran freshman and sophomore men three periods a week, each course earning one hour of credit each semester.

Veterans who have six or more months of military service prior to entering Denison will be granted four semester-hours of credit to be recorded as Physical Education 111-112 and 211-212. Any veteran who attended college prior to his military service will be granted only enough additional credit in Physical Education to meet the graduation requirement of four semester-hours.

**111-112. FOR FRESHMEN****Staff. 1**

Corrective gymnastics, rhythmic, individual athletics, tumbling stunts, and sports for freshmen only. A final examination is given in each course.

A student failing the course must repeat it or elect another. A student may receive duplicate credit in any course. If assigned to Corrective Gymnastics, he may take the course for one, two, three, or four semesters. (Three hours each week.)

**211-212. FOR SOPHOMORES**

Staff. 1

Corrective gymnastics, rhythmic, boxing, wrestling, sports, and apparatus stunts. (Three hours each week.)

**REQUIRED COURSES FOR WOMEN**

Physical Education is required of all freshman and sophomore women two sessions of one and one-half hours a week, each course earning one hour of credit each semester.

**111-112. FOR FRESHMEN**

Staff. 1

Elective work from activities listed: archery, badminton, basketball, bowling, square dancing, modern dance, fencing, golf, hockey, horseback riding, lacrosse, outing activities, swimming, tennis, and volleyball. (One and one-half hours each week.)

**211-212. FOR SOPHOMORES**

Staff. 1

Elective work from activities as listed above with emphasis on advanced work. (One and one-half hours each week.)

Majors or minors in the department may enroll for 311, 312 in the junior year with the consent of the chairman of the department.

**MAJOR IN HEALTH AND PHYSICAL EDUCATION**

Advanced courses are offered for students desiring to become teachers of Health and Physical Education in public or private schools. Courses are also arranged to meet the needs of those who desire familiarity with the subject as part of their equipment for leadership in community recreation, social work, and other services, or leisure-time agencies. A student not wishing to qualify for a teaching certificate may take a transdepartmental major in Community Recreation. (See Transdepartmental Majors.)

Departmental requirements for the State Provisional High School Certificate valid for teaching this subject in combination with other teaching majors in grades 7-12 include 30 semester hours. These credit hours are distributed among the following seven groupings with required totals as indicated.

Men majors must also participate on at least two varsity sports' squads or serve as a service class assistant for two semesters or serve as an assistant intramural manager for two semesters.

It is recommended that the student planning to major in this department present General Education 51-52 in partial fulfillment of the science requirement.

## Group I

HUMAN ANATOMY AND PHYSIOLOGY 6  
(See Biology 201-202.)

443. PHYSIOLOGY OF EXERCISE AND KINESIOLOGY Miss Ross. 2  
Prerequisite: Biology 201-202.

## Group II

463. PRINCIPLES, ORGANIZATION AND ADMINISTRATION OF  
PHYSICAL EDUCATION Miss Shepard. 3

## Group III

METHODS AND MATERIALS IN PHYSICAL EDUCATION FOR THE  
ELEMENTARY AND HIGH SCHOOL PROGRAMS Miss Shepard, Mr. Yard. 4  
(See Education 352.)

## Group IV (6 credits required)

METHODS (Recreational Dance required) Miss VanHorn. 2  
(See Education 354.)

321-322. SPORTS TECHNIQUES (Women) Staff. 2  
Methods and materials for teaching the various team, individual,  
and dual sports in season.

325. SPORTS TECHNIQUES (Football) Mr. Piper. 2  
(Offered in 1957-58.)

326. SPORTS TECHNIQUES (Track and Baseball) Mr. Piper, Mr. Meyer. 2  
(Offered in 1956-57.)

328. SPORTS TECHNIQUES (Basketball) Mr. Swinderman. 2  
(Offered in 1957-58.)

## Group V

333. PRINCIPLES, ORGANIZATION, ADMINISTRATION METHODS  
AND MATERIALS FOR SCHOOL HEALTH EDUCATION Mr. Yard. 3

## Group VI

248. PERSONAL AND COMMUNITY HYGIENE Mr. Meyer. 4

## Group VII

438. SENIOR SEMINAR IN PHYSICAL EDUCATION  
Miss Shepard, Mr. Yard. 2

## ELECTIVE COURSES

119. FIRST AID Miss Ross, Miss Shepard, Mr. Piper. 2  
The course follows the American Red Cross Manual and meets the requirements for the Standard and Advanced First Aid Certificates and also includes a unit in Athletic Injuries.
124. CAMPING AND OUTDOOR EDUCATION Miss Ross. 2  
The summer camp as an educational and recreative agency. Designed to prepare students for counselorship.
215. INTRODUCTION TO COMMUNITY RECREATION Mr. Jenkins. 3  
An introductory course in the principles, organization, and administration of community recreation.
- 305-306. BEGINNING COMPOSITION FOR DANCE Mrs. Northrop. 2  
Introduces students to the rhythmic structure of dance including problems in line, contour, dynamic and meaning, space design and composition for groups; pre-classic dance forms, the use of accompaniment. Provides experience in analysis and critique of original compositions. Consent of instructor.
361. DIRECTED STUDY Staff. 3
423. DANCE AS AN ART FORM Mrs. Northrop. 3  
Historical and philosophical concepts, theory and practice of teaching, advanced composition project.
444. ADAPTIVE PHYSICAL EDUCATION Miss Ross. 2  
Individual or adapted physical education, including corrective, restricted, and therapeutic activities, their teaching, and administration. Prerequisite: 443.

## PHYSICS

Mr. Leon E. Smith, Mr. Howe, Mr. Wheeler  
Senior Professor, Mr. Leon E. Smith  
Chairman (1954-57), Mr. Howe

## MAJORS IN PHYSICS

The major sequence in Physics consists of courses 121-122, 211-212, with 12 additional hours in courses numbered higher than 300. Students who expect to follow the 3-2 engineering plan or to major in the physical sciences are advised to take at least 121-122, 211-212. A student preparing for graduate work in Physics should elect courses 311, 312, 313, 314, 321-322, and 344. An engineering student

will find 431-432 useful. The sequence 115-116 satisfies the Physics requirement for students expecting to enter medicine or dentistry.

**115-116. ELEMENTARY PHYSICS****Staff. 4**

Lecture demonstrations, recitations and one three-hour laboratory period covering the more important principles of mechanics and heat (first semester); electricity, magnetism, wave motion, light, and sound (second semester). This is a service course for premedical, preidental, and pre-technician students. Prerequisites: One year of high school physics or consent of instructor; Mathematics 121-122 or General Education course 40a should accompany or precede this course.

**121-122. GENERAL PHYSICS****Staff. 5**

Lecture demonstrations, recitations and one three-hour laboratory period dealing in a rather rigorous manner with mechanics and heat (first semester); electricity, magnetism, wave motion, light, and sound (second semester). This is the basic Physics course for students who are majoring in the physical sciences, physics, mathematics, chemistry, and preengineering. Prerequisite: One year of high school physics or consent of instructor; Mathematics 121-122 should accompany or precede this course.

**200. FLIGHT TRAINING**

Dual and solo flight instruction leading to the CAA private pilot's license. (For full details see separate bulletin on Flight Training.) Maximum cost and deposit \$450.

**201. FLIGHT TRAINING****Mr. Howe. 2**

Basic ground school course for pilot training.

**211-212. LABORATORY PHYSICS****Staff. 3**

A second-year course in general physics consisting of one lecture and two three-hour laboratory periods designed to integrate, correlate, and extend the concepts and methods of physics in theory and experiment by thorough mathematical discussion of theory applied to more demanding experiments in mechanics, molecular physics, and heat (211); sound, magnetism, electricity, and optics (212). For pre-engineering and physical science students. Prerequisite: First year college physics; concurrent registration in The Calculus.

**311. ELECTRICAL MEASUREMENTS****Mr. Howe. 3**

A secondary laboratory course in which the theory and practice of precise methods of electrical measurement are presented. The theoretical course to accompany this is 313. Prerequisites: 211-212 and The Calculus.

**312. LIGHT**

Mr. Smith. 3

A secondary laboratory course dealing with experiments in geometric optics, diffraction, interference, polarization, and some practice with a spectrograph. Course 314 normally accompanies this course. Prerequisites: 211-212 and The Calculus.

**313. MAGNETISM AND ELECTRICITY**

Mr. Smith. 3

A secondary course dealing with fundamental laws of electric and magnetic fields, steady currents, electromagnetic induction, D.C. and A.C. circuits. Vector methods are introduced and used. Laboratory course 311 is recommended as an accompanying course. Prerequisites: 211-212 and The Calculus. (Offered in 1956-57 and in alternate years.)

**314. GEOMETRIC AND PHYSICAL OPTICS**

Mr. Smith. 3

A secondary course presenting the fundamental theorems of geometric optics and the theory of refraction, diffraction, interference and polarization of light. Physics 312 parallels this in the laboratory. Prerequisites: 211-212 and The Calculus. (Offered in 1956-57 and in alternate years.)

**321-322. INTRODUCTION TO THEORETICAL PHYSICS**

Mr. Wheeler. 3

Introduction to the concepts of theoretical physics, statics and dynamics of systems of particles, motions of rigid body, harmonic motions, vibrating systems, and the generalized methods of Lagrange and Hamilton. The second semester deals with elasticity, hydrodynamics, elementary field concepts, and an introduction to relativity. The course is open to juniors and seniors who expect to major in Physics, Mathematics, Engineering, and Chemistry. Prerequisites: 211-212 and The Calculus, or consent.

**333. KINETIC THEORY AND THERMODYNAMICS**

Mr. Smith. 3

Lecture course presenting selected topics of the kinetic theory of gases, the derivation of equations of state, and the laws of thermodynamics with implications and applications. Prerequisites: 211-212 and The Calculus. (Offered in 1957-58 and in alternate years.)

**334. MODERN PHYSICS**

Mr. Smith. 3

This course introduces the conduction of electricity through gases, the elementary particles of physics, the structure of matter, radiation, radioactivity and nuclear physics. Prerequisites: 211-212 and The Calculus. (Offered in 1957-58 and in alternate years.)

**344. THERMIONICS AND ITS APPLICATION**

Mr. Howe. 4

Laboratory and class work presenting fundamental ideas of thermionic emission and its application in vacuum tubes with their salient characteristics: electronic circuits in common practice in radio and telephone. Prerequisites: 211-212 and The Calculus, or consent of instructor.

**361-362. DIRECTED STUDY IN PHYSICS**

Staff. 3

**431-432. ELEMENTS OF ELECTRICAL ENGINEERING**

Mr. Smith. 4

Lecture and laboratory course presenting the general theory of direct and alternating current circuits and machinery. Prerequisites: 211-212, and Mathematics 221-222.

**461-462. INDIVIDUAL WORK FOR HONORS**

Staff. 3

**PSYCHOLOGY**

Mr. Wolf, Mr. Barlow, Mr. Bishop, Mr. Tanner, Mr. Mountjoy, Dr. Peppel  
and three part-time

Chairman (1955-58), Mr. Wolf

**MAJOR IN PSYCHOLOGY**

A major in Psychology requires a minimum of 26 hours in Psychology including courses 111, 112 or 211, 315-316, 341, 413, 414, and 441-442.

General Education courses 40a and 40b are strongly recommended.

A student contemplating graduate work in Psychology should obtain a reading knowledge of at least one foreign language, preferably French or German, and should also enroll in other courses in Mathematics, Biology, and Physics, as advised, to meet individual needs.

**CONCENTRATION IN PERSONNEL ADMINISTRATION**

This program is designed to provide an understanding of personnel policies and practices applicable in business and industry and in the field of education.

A major with this specialization is required to take a minimum of 24 semester hours in Psychology including courses 111, 112, or 211; 226, 320, 341-342, 417, and 420.



He is also required to take the following related courses: Economics 211-212, 317-318; Sociology 207, 415; and Government 211 or 212.

He should also register for as many as possible of the following related courses (a minimum number of nine semester-hours in this group is required): Economics 223-224, 442, 444, 316, 419; Government 231-232, 302; Mathematics 203; Speech 221; and Education or other related courses as advised.

*Psychology 111, 112, or 211 is prerequisite to all other credit courses in the department with the exception of 91 and 101.*

91. VOCATIONAL INFORMATION

1

Vocational testing, readings, discussions, and counseling designed to aid the individual student to work constructively toward a sound vocational decision. (Not offered in 1956-57.)

93. PLACEMENT TECHNIQUES

0

Discussion of techniques of job hunting and placement interviewing. (Not offered in 1956-57.)

101. PSYCHOLOGY OF EFFECTIVE STUDY

Mr. Smith. 1

Offered primarily for the student with demonstrated deficiencies but open to others on an elective basis. Includes such topics as time-scheduling, note-taking, reading speed, and reading comprehension. Meets three hours a week.

111, 112. INTRODUCTION TO PSYCHOLOGY

Staff. 4

A survey of traditional topics in psychology (first semester, 3 hours of lecture, 2 hours of laboratory). Scientific techniques and interpretation of data (second semester, 2 hours of lecture, 4 hours of laboratory).

211. GENERAL PSYCHOLOGY

Staff. 3

Introduction to the general nature and principles of behavior. (Offered each semester.)

217. CHILD AND ADOLESCENT DEVELOPMENT

Mr. Smith. 3

Psychological development especially during the school years. (Also listed as Education 217.) (Offered each semester.)

226. PSYCHOLOGY OF ADJUSTMENT

Mr. Tanner. 3

Motivations of man with emphasis upon behaviors requisite for adequate living. (Offered each semester.)

315-316. EXPERIMENTAL PSYCHOLOGY

Mr. Barlow, Mr. Bishop. 3

Experimental approach to human behavior emphasizing experimental design and research.

320. PERSONNEL PSYCHOLOGY Mrs. Jones. 3  
A consideration of the psychological principles and procedures in effective personnel management, with special reference to business and industry.
338. SOCIAL PSYCHOLOGY Mr. Barlow. 3  
Individual behavior as it is influenced by cultural forces.
339. PHYSIOLOGICAL PSYCHOLOGY Mr. Bishop. 2  
A study of the physiological mechanisms of behavior. Prerequisite: General Education course 51-52 or Biology 111-112.
- 341-342. PSYCHOLOGICAL TESTS AND MEASUREMENTS Mr. Bishop. 3, 2  
Theory of psychological measurements (first semester) and application of individual and group tests (second semester).
- 345-346. MINOR PROBLEMS Staff. 2 or 3  
Independent work on selected topics under the guidance of staff members. Consent of instructor.
- 361-362. DIRECTED STUDY IN PSYCHOLOGY Staff. 3
411. ABNORMAL PSYCHOLOGY Mr. Wolf. 4  
Psychopathology: Its development, course, and treatment with emphasis upon prevention and cure.
413. HISTORY OF PSYCHOLOGY Mr. Lichtenstein. 3  
A review of the history of psychological thought and theory.
414. SYSTEMATIC PSYCHOLOGY Mr. Lichtenstein. 3  
A study of the schools of psychological thought and theory.
417. INDUSTRIAL PSYCHOLOGY Mr. Barlow. 3  
Psychological principles and methods as they contribute to the solution of industrial problems. Prerequisites: 341-342.
420. INTRODUCTION TO CLINICAL PSYCHOLOGY 3  
A survey designed to acquaint the student with the role and function of the clinical psychologist. Consent of instructor.
- 441-442. ADVANCED GENERAL PSYCHOLOGY Mr. Wolf. 2  
Designed to integrate the student's knowledge of psychology.
- 445-446. MINOR PROBLEMS Staff. 2 or 3  
Independent work on selected topics under the guidance of staff members. Consent of instructor.
- 461-462. INDIVIDUAL WORK FOR HONORS Staff. 3

## RELIGION

Mr. Kruener, Mr. Scott, Mr. Powers, Mr. Eminhizer

Acting Chairman (1956-57), Mr. Scott

A pre-theological student is advised to take at least 111, 112, 213-214, and 217 as a basis for graduate work. A student preparing for a vocation in religion without graduate training, such as pastoral assistant, church secretary, director of religious education, or minister of music, should begin planning his sequences with the chairman of the department by the sophomore year.

## MAJOR IN RELIGION

Among the 24 semester-hours of credit for a major in this department 111, 112, 213-214, 217, 301, and 303 are required.

111. INTRODUCTION TO HEBREW RELIGION Mr. Kruener. 3

Orientation to the study of the Bible: The history of the Hebrew people to 200 B.C.; the record of their religious and ethical insights as found in the Old Testament.

112. THE RISE OF CHRISTIANITY Mr. Kruener. 3

The origins of the Christian movement as found in the New Testament; the life and thought of the early church. Continuation of 111.

118. THE LIFE AND TEACHINGS OF JESUS 3

A detailed study of Jesus' life, thought, and significance based on the four gospels.

213-214. HISTORY OF CHRISTIAN THOUGHT AND ACTION 3

A survey of the western development of Christianity from the apostolic church to the Protestant Reformation (first semester), to the present time (second semester), attention to the genesis of Christian opinion on war, the state, the family, and property; consideration of the developing Christian art as an expression of Christian faith; biographical study of major persons. General Education course 18 or Religion 111, 112 are recommended.

217. THE FAITHS OF MANKIND 3

Examination of the major religions of the world with special reference to Judaism and Christianity. This course with Philosophy 303 fulfills the requirements for General Education course 81-2 for members of the Classes of 1956 and 1957.

## 218. CONTEMPORARY RELIGIOUS MOVEMENTS 3

A survey of the principal religious cults in the United States. Opportunity whenever possible for experience with the groups studied.

## 301. THE BASES OF CHRISTIAN ETHICS Mr. Scott. 3

A critical study of the fundamentals of Christian morality as represented primarily in contemporary Christian authors. 213, 214 recommended.

## 303. BASIC ISSUES IN RELIGION Mr. Scott. 3

A consideration of the basic elements in religious experience, such as faith in God, participation in community, conception of man's nature and needs, views about the good life for him. Special attention will be given to the Hebrew-Christian tradition with focus on the actual and possible religious life of modern man. (213-214 recommended.)

## 308. RELIGION AND SCIENCE 3

A study of the impact of certain scientific viewpoints upon modern religion, primarily Christian; readings from scientists and theologians. Consent of instructor.

## 361-362. DIRECTED STUDY IN RELIGION 3

## PHILOSOPHY OF RELIGION

(See Philosophy 401 for description.)

## 461-462. INDIVIDUAL WORK FOR HONORS 3

## SOCIOLOGY

Mr. Mitchell, Mr. Valdes, Mr. Thomlinson

Chairman (1956-59), Mr. Mitchell

## MAJOR IN SOCIOLOGY

The major in Sociology is designed for a student who expects to pursue graduate study in Sociology leading to a teaching or research career, as preparation for those who anticipate entering social work and government service, and for those whose interest is primarily cultural.

A major in Sociology shall earn at least 24 semester-hours and preferably 30 semester-hours of credit in Sociology, including 207, and 420 and at least 12 semester-hours of credit from the following related courses: Economics 317-318, 332; Family Life 211; Geography

226; Government 212, 312, 346; History 221-222; Mathematics 203; Philosophy 303, 321, 326, 327, 333; Physical Education 215; Psychology 211, 217, 226, 338, 411; and Religion 213-214, 217, 218, and 301.

*Students contemplating graduate study must take 222 and should secure a reading knowledge of either French or German.*

Departmental majors are required to take 207, Economics 211-212, and Government 211 rather than General Education course 71-72. It is recommended that Sociology 207 be taken in the sophomore year.

General Education course 71-72 or Sociology 207 will serve as prerequisite for all Sociology courses elected by those not majoring in Sociology.

**207. FOUNDATIONS OF SOCIAL LIFE**

Staff. 4

The study of man, of human social organization, culture, and language, emphasizing both primitive and later technology, behavior, institutions, and the dynamics of society.

**208. HUMAN ECOLOGY**

Mr. Thomlinson. 3

Population, distribution, composition, growth, and their bearing on current economic, political, and social problems.

**211. CRIMINOLOGY**

Mr. Mitchell. 3

A study of the phenomenon of crime in American society as to amount, the varying rates in terms of area of residence, age, social class, and occupational group, and the causes and the treatment of criminal behavior.

**222. SOCIAL INVESTIGATION**

Staff. 3

Principal methods of social research are examined; planning and conducting of a research project and the use of current techniques of collecting, analyzing, interpreting, and reporting data. Prerequisite: Mathematics 203.

**307. RURAL-URBAN REGIONS**

Staff. 4

Comparative and interrelated study of rural-urban life considering the physical, institutional, social, cultural, and economic factors of modern living.

**308. SOCIAL WORK**

Mr. Thomlinson. 3

A survey course including an analysis of public administration and private agencies and a descriptive comparison of types of social work including both case and group work.

## 312. RACE PROBLEMS IN THE UNITED STATES Mr. Mitchell. 4

Indians, Orientals, Negroes, and other minority groups in the United States.

THE FAMILY (See Family Life 313.)

## 315. COMMUNITY ORGANIZATION Mr. Thomlinson. 3

A study of natural and interest groupings within the community; methods of analyzing communities and the problems of community organization; the formation and analysis of programs for making effective community services and institutions.

## 318. EDUCATIONAL SOCIOLOGY Mr. Valdes. 2

Prerequisite: Sociology 207 or its equivalent or Education 217. (Also listed as Education 318. Not offered in 1956-57.)

## 340. COLLECTIVE BEHAVIOR Mr. Valdes. 3

The study of crowd and mass behavior, public opinion, the behavior of interest groups, social unrest and social movements involving an analysis of the nature and forms of group interaction leading to the creation of attitudes, beliefs, social controls. Prerequisite: Psychology 338 or consent of instructor.

## 361-362. DIRECTED STUDY IN SOCIOLOGY Staff

Credit earned will be determined by departmental evaluation.

## 415. HUMAN RELATIONS IN INDUSTRY Staff. 3

A study of the organization and characteristics of modern industrial societies; of the effects of technology on industrial environments; of the behavior of formal and informal groups in industry. The methodology of social research for analyzing and resolving group tensions in industry.

## 416. SOCIOLOGICAL THEORIES Mr. Valdes. 3

A survey of the more important literature of theoretical sociology, comparing the work of major systematic sociologists from Comte to the present. Open only to majors, or by consent of instructor.

## 420. SEMINAR Mr. Mitchell. 3

Advanced study of special problems suggested by courses already taken. Open only to majors.

## 461-462. INDIVIDUAL WORK FOR HONORS Staff. 3

## SPEECH

Mr. Crocker, Mr. Holland, Mr. Hall

Senior Professor and Chairman (1954-57), Mr. Crocker

## MAJOR IN SPEECH

A student majoring in Speech shall elect a minimum of 24 hours in Speech including 225, 312, 331, and 309 or Education 339. Other courses will be suggested to conform to the needs of the individual student.

## 113-114. ORAL READING

Mr. Crocker. 3

*Not open to students who have received credit in Theatre Arts 113 or 114.*

## 211-212. PUBLIC SPEAKING

Mr. Crocker. 3

## 218. SPEECH COMPOSITION

Mr. Crocker. 3

Analysis of masterpieces of public speaking of ancient and modern times. Masterpieces of the platform, radio, and television will be studied. Lectures, discussions, papers.

## 219. INTERCOLLEGIATE DEBATING

Mr. Hall. 2

The questions to be used in the intercollegiate debates will be studied and members of the men's and women's teams will be chosen from this class. Freshmen are organized into a separate class meeting one hour a week. A total of six hours in debating may be counted toward graduation.

## 220. DISCUSSION AND DEBATE

Mr. Crocker. 3

How to lead and take part in group discussions. Parliamentary law, conferences, discussion, argumentation.

## 221. BUSINESS AND PROFESSIONAL SPEAKING

Mr. Crocker. 3

Advanced public speaking. Prepared speeches appropriate to business and professional life. Consent of instructor.

## 225. INTRODUCTION TO RADIO

Mr. Hall. 3

The history of radio development; a study of the structure of broadcasting; comparative study of broadcasting practices in other countries; the objectives of radio as a social force and cultural influence; a study of program types; and the analysis of existing programs aimed toward the development of acceptable standards for radio. Prerequisite: General Education course 10s or equivalent.

226. RADIO WORKSHOP Mr. Hall. 3  
Comprehensive lecture-laboratory course covering the basic techniques of radio acting, writing, announcing, and directing. Prerequisite: 225 and consent of instructor.
227. RADIO PRODUCTION PROCEDURES Mr. Hall. 3  
Lecture-laboratory course in the production of complex program types; study of production problems, techniques, and procedure. Actual production from initiation to airing. Prerequisite: 226 and consent of instructor.
228. ADVANCED PRODUCTION PROCEDURES Mr. Hall. 3  
Study of music, variety, and complex dramatic program types. Continuation of 227. Prerequisite: 227 and consent of instructor.
229. CONTEMPORARY RADIO Mr. Hall. 2  
During spring vacation a trip to the four major radio networks in New York will be made to observe station operation, studio arrangements, the production of various types of programs from rehearsal through performance, and the production of television programs. Study of network operational policies and procedure precede the trip; a written report of the trip is required. Estimated cost of trip, exclusive of tuition, \$75 to \$100. Consent of instructor.
309. SEMINAR IN SPEECH Mr. Crocker. 2  
Readings and reports in the six areas of speech.
312. RHETORICAL THEORY Mr. Crocker. 2  
Historical and critical survey of the principal theories of speech composition and delivery from Aristotle to the present time, with special emphasis on the classical period.
330. VOICE AND DICTION Mr. Hall. 3
331. INTRODUCTION TO SPEECH CORRECTION Mr. Hall. 3  
The relation of speech to mental hygiene; an introduction to phonetics and to the study of speech disorders; types, characteristics, diagnosis, and theories of treatment. Prerequisites: 12 hours of Speech and/or Theatre Arts. (Offered in 1957-58 and in alternate years.)
- 361-362. DIRECTED STUDY IN SPEECH OR RADIO Staff. 3
- 461-462. INDIVIDUAL WORK FOR HONORS Staff. 3
- THE TEACHING OF SPEECH (See Education 339.)



## THEATRE ARTS

Mr. Wright, Mr. Brasmer, Mr. R. G. Smith

Chairman (1955-58), Mr. Wright

## MAJOR IN THEATRE ARTS

A student majoring in Theatre Arts shall elect 28 to 32 semester-hours. Among the courses should be 215-216, 217-218, 301 or 302, 323-324, 326, and 415-416 with additional hours in other courses representing acting, technical or theory, and criticism. Recommended courses in allied fields are English 321-322, 329, and 330, and such other courses as the department feels the student may need.

## 113. DRAMATIC INTERPRETATION

Mr. Wright. 3

(Students majoring in Theatre Arts may substitute this course for General Education course 10t.) Intensive work on individual voice and diction problems and the dramatic interpretation of the intellectual and emotional content of the best literature in essays, narratives (stories and dialects), dramas, and poetry. *Not open to students who have had Speech 113 or 114.*

## 114. ADVANCED DRAMATIC INTERPRETATION

Mr. Wright. 3

An elective to follow Theatre Arts 113. This course places emphasis on developing an individual platform personality and the building of a repertoire. *Not open for credit to students who have received credit in Speech 114.*

## 215-216. INTRODUCTION TO THE THEATRE

Mr. Wright. 2

Basic course in play selection, analysis, acting, make-up direction, organization of personnel and management. First course for Theatre Arts majors but designed primarily for non-majors with a theatre interest as an avocation, or for teaching. Non-majors must also take 217 to receive credit in 215-216. 218 is required of majors; optional for non-majors.

## 217-218. INTRODUCTION TO TECHNICAL PROBLEMS

Mr. Smith. 2

Basic course in scene design, construction, painting, lighting, and backstage organization. Must be carried for at least two hours to receive credit in 215-216. Both semesters are required of majors.

## 224. STAGE LIGHTING

Mr. Smith. 2

Theory and practice in the proper use of lights in present day theatre with special emphasis toward the lighting of a production with limited equipment.

**225. CONTEMPORARY THEATRE**

Mr. Wright. 2

Attendance at outstanding productions in New York during spring vacation, preceded by study of contemporary theatre and followed by a written report of the productions seen. Estimated cost of trip, exclusive of tuition, \$100. May substitute for General Education course 33. Consent of instructor.

**227-228. ACTING FOR BEGINNERS**

Mr. Brasmer. 2

First semester—Pantomime and stage movement.

Second semester—Character analysis and creation; emotional interpretation and projection.

**229-230. ADVANCED ACTING**

Mr. Wright, Mr. Brasmer. 2

Work in all types of acting with emphasis on varsity production. Consent of instructor.

**235. CHILDREN'S THEATRE**

2-3

Specialized work in preparation and presentation of a play for children by adults. Consent of instructor. (Not offered in 1956-57.)

**301. STAGECRAFT AND SCENE DESIGN**

Mr. Smith. 2-3

Advanced work in the theory and practice of scene design, construction, and painting. Students will have responsibility in backstage work on University and Studio productions. (May be taken during Summer Theatre.)

**302. THEATRE PLANNING AND ARCHITECTURE**

Mr. Smith. 2-3

Surveying the development of the physical forms of the theatre with emphasis on contemporary professional, college, high school, and civic theatre building. Also the planning and designing of new theatres.

**323-324. THEATRE HISTORY**

Mr. Brasmer. 3

Survey of World Theatre from Greeks to the present, exclusive of America (first semester); survey of Theatre and Film in America from beginnings to present (second semester). Both emphasize influences cultural, social, and political as well as personalities and methods of production.

**326. THEORY OF THE THEATRE**

Mr. Wright. 3

The analysis and comparison of dramatic theories from Aristotle to the present with emphasis on present trends of stage and motion pictures. Prerequisite: 12 hours of Theatre Arts.

## 361-362. DIRECTED STUDY IN THEATRE ARTS

Staff. 3

## 401. MAJOR TECHNICAL PROBLEMS

Staff. 2-6

Open to students with special talent in lighting, direction, costuming, acting, playwriting, dramatic interpretation or such projects as may be necessary to complete a well-rounded background in their major field. May be taken as credit through participation in Denison Summer Theatre. Consent of instructor.

## 415-416. PLAY DIRECTION

Mr. Wright, Mr. Brasmer. 3

Theory and practical work in direction. Each student is responsible for selection, casting, rehearsing, and production of one-acts or longer plays presented in the Studio Theatre. Prerequisite: 15 hours of Theatre Arts and consent of instructor.

## 461-462. INDIVIDUAL WORK FOR HONORS

Staff. 3

# CONSERVATORY OF MUSIC

## FACULTY

Karl H. Eschman, Ph.B., A.M., F.A.G.O., Mus.D.

*Director of the Conservatory*

*Professor-Emeritus of Music*

Graduate of Denison in piano and organ; graduate student, Harvard 1911-12, under Walter R. Spalding and Edward Burlingame Hill; 1912-13, under Hugo Kaun and Victor Heinze, Berlin; under Erwin Stein, Egon Wellesz and others, University of Vienna, 1929-30; under Walter Piston, Harvard, 1942; member of the faculty, Ohio State and Northwestern summer sessions, 1926-29 and 1935-54; Visiting professor of theory, School of Music, University of Michigan, Summer session, 1955. Fellow of American Guild of Organists. Awarded honorary Doctor of Music degree by Denison in 1956.

BRAYTON STARK, Mus.B., A.B., A.M., F.A.G.O.

*University Organist*

*Associate Professor of Music*

### ORGAN AND THEORY

Graduate of Guil mant Organ School; post-graduate work at Eastman School of Music; theory with T. Tertius Noble and organ with Joseph Bonnet, organist of Cathedral of St. Eustache, Paris; director of music at Christ Church, Corning, N. Y.; Fellow of American Guild of Organists. Graduate of Denison in Music and in liberal arts; A.M., Harvard.

SAM GELFER

*Associate Professor of Music*

### VIOLIN

Pupil of Henry Schradieck, Theodore Spiering, Alois Trnka, and Joseph Achron in violin and of Frederick B. Stevens and R. H. Miles in theory; Juilliard School of Music, Chamber Music with Felix Salmond.

**SUE HAURY, A.B.***Assistant Professor of Music***PIANO**

Graduate of Peabody Conservatory; graduate student at New England Conservatory; fellowship at Juilliard Graduate School; graduate of Denison; pupil of Olga Samaroff, Rudolf Ganz, Ernest Hutcheson, and Carl Friedberg in piano. Instructor, Occidental College, Los Angeles, Calif.

**HERMAN LARSON, A.B.***Assistant Professor of Music***VOICE**

Graduate of Augustana College, Sioux Falls, S.D., 1933; Graduate student, American Conservatory of Music, Chicago, 1933-37, voice with Theodore Harrison and theory with Leo Sowerby and Jeanne Boyd; instructor, Valparaiso University, Valparaiso, Ind., 1935-36, and Joliet Conservatory of Music, Joliet, Ill., 1936-37; Associate Professor, University of Oklahoma, 1937-44.

**ROBERT MILLER, Mus. B., Mus. M., Licence de Concert from  
Paris, France**

*Assistant Professor of Music***PIANO**

Graduate of Northwestern University; post-graduate work at Northwestern University, Conservatoire Americain at Fontainebleau, France, summer 1949. United States Fulbright Grant 1950-51, Ecole Normale de Musique de Paris (First Prize of the School); United States Fulbright Prize Award 1951-52, Conservatoire National de Musique de Paris. Student of Louis Crowder, Robert Casadesus, Alfred Cortot, Yves Nat, and Aldo Ciccolini. Member of the faculty of Northwestern University, summer session 1950.

**GEORGE R. HUNTER, B.F.A., M.F.A.***Instructor in Music and Music Education***INSTRUMENTAL MUSIC**

Bachelor of Fine Arts in Music Education, Bachelor of Fine Arts in Music (Trumpet Major) and Master of Fine Arts, Carnegie Institute of Technology. Director of Music, Etna High School, Pennsylvania; Assistant Professor of Music and Director of Band and Glee Club, Waynesburg College, Pennsylvania.

**DULCIE BARLOW, Mus. B.***Instructor in Harp (part-time)***HARP**

Graduate of Oberlin Conservatory of Music. Studied at Summer Harp Colony of America, Camden, Me., 1943-47. Pupil of Carlos Salzedo, Lucy Lewis, Alice Chalifoux, and Eleanor Gutherie. First harpist, Erie (Pa.) Philharmonic, 1948-49; harpist, Atlanta (Ga.) Symphony, 1952-53.

**LEIGHTON CONKLING, B. Mus. Ed., Mus. M.***Instructor in Cello (part-time)***VIOLONCELLO**

Graduate of Northwestern University; post-graduate work at Northwestern University. First cellist, Northwestern Symphony Orchestra and Kenosha (Wis.) Symphony Orchestra; toured with The Concordia String Quartet. Assistant instructor, Northwestern University, 1951-52; Instructor, Lawrence College, Appleton, Wis., 1951-52; Instructor, Ohio University since 1952. Pupil of Dudley Powers.

# MUSIC CURRICULUM

## THEORETICAL STUDIES

Courses in the theory and history of music will be found listed in detail under the Department of Music in the regular list of college courses in the catalog. (See Department of Music.)

## APPLIED STUDIES

Proficiency in one department of Applied Music is a requirement for graduation. To obtain the *Conservatory Diploma* the student must appear in a public recital near the end of his senior year. If he chooses to substitute normal study for the recital and shows evidence of ability to teach his major subject, he will receive a *Conservatory Teacher's Certificate*.

A student who selects violin, voice, violoncello, or other field, as his major must take piano as a minor subject until he is able to play piano music of the third grade of difficulty.

The number of years required to complete the work in any applied study depends entirely upon the student's ability and previous training. Examinations at intervals will be given to the student to ascertain his standing. In general, these examinations consist of technical demonstrations, the performance of prepared compositions from memory, and the playing of one selection prepared without the aid of the teacher.

## PIANO

It is the aim of the Department of Music to study and to meet the individual needs of each student. In accordance with this policy, the department accepts a student for *private lessons only*.

Especial attention is paid to the laying of careful foundations in technical work. Modern principles of relaxation and of good tone production are emphasized. Facility and velocity are sought, but artistic interpretation is even more desirable. This is, of course, impossible of attainment without an adequate technique.

The student's attention is called to the problems underlying program-making, and his knowledge of piano literature is supplemented by theoretical work.

For junior standing in this department, a student must play all major and minor scales in three speeds; scales of double thirds, fourths, and octaves, and arpeggios of all triads, diminished and dominant sevenths; Bach's three-part inventions, a Haydn sonata, compositions by Schubert, Mendelssohn, and others.

For senior standing, a student must achieve greater speed and facility in all technical work. Other requirements are scales in double sixths, fugues from the *Well-Tempered Clavichord*, a Beethoven sonata, and compositions by Schubert, Chopin, and more modern composers.

## VOICE

Since correct placement is the aim of all vocal instruction, the teacher seeks to determine the student's normal range and to perfect the even quality of tones throughout that range. Other factors stressed are correct control of the breathing, diction, and enunciation. The vocal student is required to study a modern foreign language in order to cultivate vocal diction in more than one idiom. He is also required to study the piano and is advised to begin this study early in his course.

Vocal instruction will be directed toward the problems peculiar to the voice, and to song interpretation, to rhythm, and to phrasing. The song literature of all schools, lieder, arias, ballads, and art songs are used.

The student in voice is urged to participate in the University chorus, and to study solfeggio and elementary theory.

For junior standing in this department, a student must be able to sing effectively songs of moderate difficulty in English and in one other language.

For senior standing, a student must show proficiency in advanced vocalization and in arias from opera and in oratorio in other languages.

For those who wish an introduction to singing, class lessons may be arranged (Voice Class, one hour credit). A student is accepted for private lessons at any stage of advancement.

## ORGAN

Study of the piano is a prerequisite for the study of the organ. Whether or not the student has fulfilled this requirement is determined by the instructor. The department reserves the right to require more piano study.

Because the acquisition of a smooth legato style at the organ is the objective, the music for advanced study is selected from those composers who are especially idiomatic—Bach, Mendelssohn, Rheinberger, Guilmant, and others. Both concert and church music are studied.



For junior standing in this department, the student must pass examinations which will require him to play a composition previously studied; to play a selection prepared without the aid of the teacher; to play at sight a simple trio for two manuals and pedal; to play pedal scales (major or minor) of two notes at 120 mm.; to transpose at sight a passage in four-part harmony into keys not more than one tone higher or lower, and to play simple modulations.

For senior standing, the student must play a composition previously studied and a selection prepared without the teacher's help. In addition, he must play at sight a more difficult trio, must play pedal scales (major and minor) of four notes at 84 mm., and also arpeggios. He must also transpose at sight a passage in four-part harmony into keys not more than a major third higher or lower and must play modulations into remote keys.

### VIOLIN AND VIOLONCELLO

Those entering violin and violoncello playing for the first time will find especial attention paid to matters of position, bowing, and fingering. From the start, production of good tone with clear intonation is emphasized.

More advanced pupils are introduced to a wide range of literature. Ensemble playing is encouraged. Any student sufficiently advanced has the opportunity of playing in the University orchestra.

The aim is for a broad musicianship and a high plane of artistic conception and interpretation.

For junior standing, the student must pass examinations in Violin based upon technical studies by Mazas (*Opus 36*), Kreutzer, or Fiorillo, and compositions by DeBeriot, Vieuxtemps, Viotti, Rode, and Haydn.

For senior standing, he may expect to be examined on the *Twenty-four Caprices* of Rode, DeBeriot's *L'Ecole Transcendante* and concertos by Spohr, Mozart, and Nardini, together with sonatas by Mozart and Beethoven.

### WIND INSTRUMENTS

Those playing wind instruments for the first time will be taught to build a good embouchure and helped to acquire a good tone, good articulation, and the control necessary for good phrasing. More advanced pupils will be introduced to a wide range of literature for their particular instrument, and for junior and senior standing will be examined on material comparable in difficulty to that required by other departments.

## MUSICAL ORGANIZATIONS

CONCERT CHOIR of 50 mixed voices, formerly A Cappella Choir, sings at student chapels, Handel's *Messiah*, the Spring Festival, and on various other programs, including a home concert each year. In recent years Palestrina's *Stabat Mater*, Randall Thompson's *The Peaceable Kingdom* and Bach's *Magnificat* have been performed.

ENSEMBLE work in string and piano classes is offered for students sufficiently advanced.

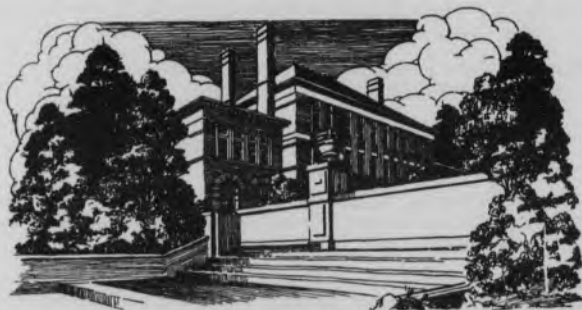
THE BAND is organized as the Marching Band during the football season, appearing at home games and making several trips to out-of-town games. During the winter and spring the Concert Band rehearses and appears in one or more concerts.

THE DENISON ORCHESTRA affords students the opportunity of playing in a spring concert and in both music festivals. Members are also invited to play in the Licking County Symphony Orchestra.

THE MEN'S GLEE CLUB with 80 years of tradition behind it is in frequent demand for various short programs. The club appears on radio programs, gives several home concerts each year, and takes an annual spring trip for a series of concerts away from Granville.

THE WOMEN'S GLEE CLUB presents an annual concert, sings for Chapel on occasion, and travels from time to time.





DOANE ADMINISTRATION BUILDING

## BOARD OF TRUSTEES

### OFFICERS OF THE BOARD

FRANKLIN G. SMITH, LL.D., *Honorary Chairman*

CHARLES W. DEEDS, B.S., M.B.A., *Chairman*

GEORGE M. ROUDEBUSH, Ph.B., LL.B., *First Vice-Chairman*

JOHN E. F. WOOD, LL.B., M.A., *Second Vice-Chairman*

BURT T. HODGES, B.S., M.A., *Secretary and Treasurer*

### MEMBERS

#### *Ex-Officio*

*President* A. BLAIR KNAPP, A.B., M.A., LL.D., L.H.D.

#### CLASS I—TERM EXPIRES JUNE, 1957

SAM S. DAVIS (Elected by Alumni)—

*President, Corrugated  
Container Company*

640 Shoemaker Avenue, Columbus 3, Ohio

\*ROBERT W. ENGLEHART, Ph.B., LL.B.—

*President, Parker  
Rust Proof Corporation*

2177 East Milwaukee Avenue, Detroit 11, Mich.

\*Alumnus of Denison University.

ALBERT M. HIGLEY, B.S.C.E.—*President, Albert M. Higley Company*  
2036 East 22nd Street, Cleveland, Ohio

\*ALICE MCCANN JAMES (*Mrs. Harold A.*), A.B.—  
4922 Courville Road, Toledo 13, Ohio

\*GEORGE C. MCCONNAUGHEY, Ph.B., LL.B., LL.D.— *Chairman,*  
*Federal Communications Commission*  
5205 Falmouth Road, Washington 16, D.C.

\*NORMAN PADELFORD, Ph.B., A.M., Ph.D., LL.D. (Elected by Alumni)  
*Professor, Political Science, Massachusetts Institute of Technology*  
6 Ravenscroft Road, Winchester, Mass.

EVERETT D. REESE, B.S.— *President, American Bankers Association*  
(1953-54), and *Chairman, Board of Directors, Park National Bank*  
Newark, Ohio

\*C. EARL RICHARDS, Ph.B., S.B.— *Retired Secretary-Treasurer*  
*American Education Press*  
Box 501, Cocoa Beach, Florida

CHARLES LYON SEASHOLES, A.B., B.D., D.D., L.H.D.—*Minister, First*  
*Baptist Church*  
Dayton 2, Ohio

\*THOMAS R. SHEPARD, A.B.— *Shepard Insurance Agency*  
924 Union Trust Building, Cincinnati, Ohio

\*HENRY S. STOUT, B.S.— *General Agent, John Hancock*  
*Life Insurance Company*  
25 North Main Street, Dayton 2, Ohio

\*DEXTER J. TIGHT, B.S.— *Retired*  
170 Wildwood Way, Woodside, Calif.

#### CLASS II—TERM EXPIRES JUNE, 1958

WALDO B. AMES, B.A.— *President, Moore, Case, Lyman and*  
*Hubbard*  
Insurance Exchange, Chicago 4, Illinois

\*LAWRENCE E. BALDWIN, Ph.B., M.A. (Elected by Alumni)—  
*General Secretary, Buffalo Y.M.C.A.*  
833 Auburn Avenue, Buffalo 22, N.Y.

\*Alumnus of Denison University.

\*ERNEST C. BRELSFORD, B.S.— *Treasurer, Thompson Products, Inc.,*  
23555 Euclid Avenue, Cleveland 17, Ohio

\*PAUL E. CLISSOLD, B.S. (Elected by Alumni)— *President,*  
*Clissold Publishing Company*  
105 West Adams Street, Chicago 3, Ill.

\*GEORGE D. CURTIN, B.S., M.F.— *President, Pardee and*  
*Curtin Lumber Company*  
601 East Main Street, Clarksburg, W. Va.

\*CHARLES W. DEEDS, B.S., M.B.A.— *Industrialist*  
750 Main Street, Hartford, Conn.

CYRUS S. EATON, A.B., M.A., C.D.L.— *Chairman, Board of*  
*Directors, Chesapeake and Ohio R.R. Company*  
2000 Terminal Tower, Cleveland 13, Ohio

\*EUGENE EXMAN, Ph.B., A.M., Rel.Ed.D.— *Religious Book Editor*  
*and Vice President, Harper and Brothers*  
49 East 33rd Street, New York 16, N.Y.

\*WILLIAM P. HUFFMAN, B.S.— *President, Buckeye Iron*  
*and Brass Works*  
P.O. Box 883, Dayton 1, Ohio

CHARLES GLEN KING, B.S., Ph.D.— *Director, The Nutrition*  
*Foundation, Inc.*  
99 Park Avenue, New York 16, N.Y.

FRANKLIN G. SMITH, LL.D.— *Chairman, Board of Directors*  
*The Osborn Manufacturing Company*  
Apt. 410, 13700 Shaker Blvd., Cleveland 20, Ohio

\*FORD R. WEBER, B.S.— *Foster Bros., Weber and Company*  
241 Superior Street, Toledo 4, Ohio

#### CLASS III—TERM EXPIRES JUNE, 1959

EDMUND G. BURKE— *Realtor*  
Room 601, 188 Montague Street, Brooklyn 1, N.Y.

\*LORENA WOODROW BURKE (*Mrs. Charles F.*), Ph.B.  
375 Riverside Drive, New York 25, N.Y.

\*Alumnus of Denison University.

\*HELEN LAYCOCK CASPER (*Mrs. Paul D.*), A.B. (Elected by Alumni)—  
*Manager, Sales Promotion and Advertising, The Fair Store*  
 1340 North Dearborn Street, Chicago 11, Ill.

FREDERICK C. CRAWFORD, A.B., M.C.E., D.Eng., LL.D.— *Chairman,*  
*Board of Directors, Thompson Products, Inc.*  
 23555 Euclid Avenue, Cleveland 17, Ohio

\*ALBERT W. DAVISON, B.S., MA., Ph.D., D.Sc.— *Research*  
*Consultant, Owens-Corning Fiberglas Company*  
 1199 Moundview Avenue, Newark, Ohio

\*EDWARD A. DEEDS, B.S., D.Eng.— *Retired*  
 20 Exchange Place, New York, N.Y.

RANDOLPH EIDE, A.B.— *Retired President, Ohio Bell*  
*Telephone Company*  
 3232 Rumson Road, Cleveland Heights 18, Ohio

\*THOMAS E. NORPELL, A.B., M.A., J.D. (Elected by Alumni)—  
*Attorney-at-Law, Norpell and Norpell*  
 986 Lawnview Avenue, Newark, Ohio

\*GEORGE M. ROUDEBUSH, Ph.B., LL.B.— *Attorney-at-Law,*  
*Roudebush, Adrion, Sanborn, Brown, and Corlett*  
 915 Williamson Building, Cleveland 14, Ohio

\*G. HERBERT SHORNEY, B.S.— *Secretary, Hope Publishing Company*  
 5705 West Lake Street, Chicago 44, Ill.

\*PERCY L. WILTSEE, A.B.— *Retired*  
 3547 Raymar Drive, Cincinnati 8, Ohio

\*JOHN E. F. WOOD, LL.B., M.A.— *Attorney-at-Law,*  
*Dewey, Ballantine, Bushby, Palmer, and Wood*  
 Room 2900, 40 Wall Street, New York 5, N.Y.

#### TRUSTEES—EMERITI

\*FRANK B. AMOS, A.B., 1934-1950  
 24 Smallwood Place, North White Plains, N.Y.

\*ALFRED M. COLBY, Ph.B., 1925-1953  
 198 Dawson Avenue, Mansfield, Ohio

\*Alumnus of Denison University.

## ADMINISTRATIVE STAFF

A. BLAIR KNAPP, A.B., M.A., LL.D., L.H.D. *President*

### ASSISTANTS TO THE PRESIDENT

H. LAMARR RICE, A.B., B.D., M.A., M.A.	<i>For Annual Support</i>
CHARLES L. MAJOR, A.B., A.M.	<i>For Development</i>
W. CLINTON POWERS, A.B., B.D., M.A.	<i>For Church Relations</i>
PARKER E. LICHTENSTEIN, B.S., M.S., Ph.D.	<i>Dean of the College</i>
SAMUEL D. SCHAFF, A.B., M.A., Ed.D.	<i>Assistant to the Dean of the College</i>

### STUDENT SERVICES

LEONA WISE JONES, B.S., M.A., Ph.D.	<i>Dean of Women</i>
JOANNE JOHNSON, B.A., M.A.	<i>Residence Halls Counselor</i>
MARK W. SMITH, B.A., M.A., Ph.D.	<i>Dean of Men</i>
HARRY H. KRUENER, A.B., B.D., S.T.M.	<i>Dean of the Chapel</i>
DR. IRVING A. NICKERSON, B.A., M.D.	<i>Director of Student Health Services</i>
DR. ROBERT J. LUTZ, B.A., M.D.	<i>Associate Director</i>
DR. ELINOR TODD CHRISTIANSEN, A.B., M.D.	<i>Staff Physician</i>
IRVIN S. WOLF, A.B., M.A., Ph.D.	<i>(part-time) Clinical Psychologist</i>
JAMES M. TANNER, A.B., Ph.D.	<i>Clinical Psychologist</i>
ROBERT L. MCCLEERY, B.A., M.A.	<i>Director of Testing and Vocational Services</i>
BURTON W. DUNFIELD, B.S.	<i>Director of Admissions</i>
CHARLOTTE F. WEEKS, A.B., M.A.	<i>Assistant Director of Admissions</i>
RUTH P. MYERS, B.A.	<i>Executive Secretary, Denison Christian Emphasis Program</i>



## GENERAL ADMINISTRATION

DONALD R. FITCH, Ph.B., A.M.	<i>Registrar</i>
JOSEPHINE D. KRAUSE, B.S.	<i>Assistant Registrar</i>
RUTH A. OUTLAND, A.B.	<i>Director of Public Information</i>
CHARLES K. HENDERSON, B.A.	<i>Assistant Director</i>
JAMES H. MYERS, B.A.	<i>Assistant Director for Athletic Publicity</i>
LOIS E. ENGLEMAN, B.A., B.S. in L.S., M.S.	<i>Librarian</i>
JANE C. SECOR, A.B., B.S. in L.S.	<i>Librarian for Reader Services</i>
MAJOR HARRY E. HAYS, USAF, B. Ed.	<i>Officer in charge of AFROTC detachment</i>
KARL H. ESCHMAN, Ph.B., A.M., Mus.D.	<i>Director, Conservatory of Music</i>
EDWARD A. WRIGHT, A.B., A.M.	<i>Director of Theatre</i>
RIX N. YARD, B.S., M.S., Ed.D.	<i>Director of Athletics</i>
BEATRICE P. STEPHENS, A.B.	<i>Executive Secretary, Denison Society of the Alumni</i>

## BUSINESS AND FINANCE

BURT T. HODGES, B.S., M.A.	<i>Treasurer</i>
ALFRED J. JOHNSON, A.B., M.B.A.	<i>Business Manager</i>
LEROSS MORRIS, B.S.	<i>Director of Physical Plant</i>
ALLAN M. DEWEY, A.B.	<i>Purchasing Agent</i>
RAYMOND A. MCKENNA, B.A.	<i>Manager of Book Store</i>
STANLEY J. COX	<i>Food Services Director</i>
RUTH H. ROLT-WHEELER, A.B.	<i>Director of Residence Hall Services</i>
LOUIS PETITO, B.A., C.P.A.	<i>Controller</i>
EURIE M. LOUGHRIDGE, Ph.B.	<i>Assistant to the Controller— Accounting</i>
GLENNA BASORE, A.B.	<i>Assistant to the Controller—Payroll</i>
REBECCA S. McDONALD	<i>Cashier</i>

## FACULTY

- A. BLAIR KNAPP, 1951- *President*  
 A.B., Syracuse; M.A., Syracuse; LL.D., Syracuse; L.H.D.,  
 Temple and Trinity.
- PARKER E. LICHTENSTEIN, 1949- *Dean of the College  
and Professor of Psychology*  
 B.S., Massachusetts; M.S., Massachusetts; Ph.D., Indiana.
- \* \* \*
- ROBERT W. ALRUTZ, 1952- *Assistant Professor of Biological Sciences*  
 B.S., Pittsburgh; M.S., Illinois; Ph.D., Illinois.
- K. DALE ARCHIBALD, 1948- *Associate Professor of Biological Sciences*  
 B.A., Denison; M.A., Ohio State; B.D., Colgate-Rochester; Ph.D.,  
 Ohio State.
- ROBERT L. BANCROFT, 1954- *Assistant Professor of Modern Languages*  
 A.B., Univ. of Washington; A.M., Univ. of Washington.
- DULCIE BARLOW, 1953- *Instructor in Harp (part-time)*  
 Mus.B., Oberlin.
- JOHN A. BARLOW, 1953- *Assistant Professor of Psychology*  
 A.B., Oberlin; Ph.D., Duke.
- FRANCIS C. BAYLEY, 1946- *Professor of Logic*  
 A.B., Dickinson; B.D., Drew; Ph.D., Columbia.
- PAUL L. BENNETT, 1947- *Associate Professor of English*  
 B.A., Ohio Univ.; M.A., Harvard.
- CLAYTON K. BISHOP, 1952- *Assistant Professor of Psychology*  
 A.B., Brown; M.A., Yale; Ph.D., Indiana.
- JOHN L. BJELKE, 1925-1951 *Secretary-Emeritus, Denison Society of  
the Alumni*  
 Ph.B., Denison; M.A., Columbia.
- \*\*CLEVELAND J. BRADNER, JR., 1952- *Assistant Professor of Religion  
and Philosophy*  
 B.A., Atlantic Christian College; B.D., Chicago; M.A., Columbia.
- WILLIAM O. BRASMER, JR., 1948- *Associate Professor of Theatre  
Arts*  
 B.S., Northwestern; M.A., Northwestern.

\*\*On leave both semesters, 1956-57.

- JOHN B. BROWN, 1952- *Assistant Professor of Chemistry*  
B.S., Kentucky; Ph.D., Northwestern.
- MERLE E. BROWN, 1954- *Instructor in English*  
A.B., Michigan; A.M., Michigan; Ph.D., Michigan.
- \*\*ROBERT S. CARTER, 1949- *Professor of Psychology in  
the Department of Education*  
B.S., Bucknell; M.S., Bucknell; Ph.D., New York Univ.
- WILLIS A. CHAMBERLIN, 1891-1937 *Professor-Emeritus of Modern  
Languages*  
A.B., Denison; A.B., Harvard; A.M., Denison; Ph.D., Chicago;  
Litt.D., Denison.
- G. WALLACE CHESSMAN, 1950-51; 1953- *Associate Professor and  
Chairman, Department of History*  
A.B., Harvard; M.A., Harvard; Ph.D., Harvard.
- ALPHA C. CHIANG, 1954- *Assistant Professor of Economics*  
B.A., St. John's (China); M.A., Colorado; Ph.D., Columbia.
- \*TRISTRAM P. COFFIN, 1949- *Associate Professor of English*  
B.S., Haverford; M.A., Pennsylvania; Ph.D., Pennsylvania.
- EDWARD M. COLLINS, 1948- *Associate Professor of Physical Science*  
B.S., Princeton; A.M., Princeton; Ph.D., Princeton.
- LEIGHTON CONKLING, 1955- *Instructor in Violoncello (part-time)*  
B.Mus. Ed., Northwestern; Mus.M., Northwestern.
- ROBERT H. CORY, JR., 1955- *Assistant Professor of Government*  
A.B., Yale; M.A., Harvard; Ph.D., Harvard.
- JOHN R. CRIST, 1952- *Associate Professor of Family Life*  
A.B., Pacific College; M.A., Iowa; Ph.D., Missouri.
- LIONEL G. CROCKER, 1928- *Senior Professor and Chairman,  
Department of Speech*  
A.B., Michigan; A.M., Michigan; Ph.D., Michigan.
- #LINDLEY RICHARD DEAN, 1921-1953 *Professor Emeritus, Eliam E.  
Barney Chair of Classical Languages*  
A.B., Dartmouth; A.M., Princeton; Ph.D., Princeton.
- FREDERICK G. DETWEILER, 1917-1949 *Professor Emeritus of  
Sociology*  
A.B., Denison; B.D., Colgate-Rochester; Ph.D., Chicago.

\*On sabbatical leave first semester, 1956-57.

\*\*On leave both semesters, 1956-57.

#In active service (part-time), 1956-57.

- MARY L. DORE, 1950- *Catalog Librarian*  
A.B., Cornell; B.S. in L.S., Columbia.
- \*LENTHIEL H. DOWNS, 1947- *Professor of English*  
B.A., Tusculum; M.A., Iowa; Ph.D., Iowa.
- BURTON W. DUNFIELD, 1950- *Director of Admissions*  
B.S., Bates.
- JAMES R. ELLIOTT, 1953- *Assistant Professor of Economics  
and Acting Chairman (first semester 1956-57)*  
A.B., Syracuse; M.A., Syracuse; Ph.D., Syracuse.
- E. EUGENE EMINHIZER, 1956- *Instructor in Religion*  
B.A., Furman; B.S. in Ed., Youngstown; B.D., Crozer; Th.M.,  
Crozer.
- MILTON D. EMONT, 1954- *Instructor in Modern Languages*  
B.A., New Jersey State Teachers, Montclair; M.A., Middlebury.
- LOIS E. ENGLEMAN, 1948- *Librarian*  
B.A., James Millikin; B.S. in L.S., Western Reserve; M.S., Col-  
umbia.
- †KARL H. ESCHMAN, 1913-1956 *Professor Emeritus, Jessie King Wiltsee  
Chair of Music*  
Ph.B., Denison; A.M., Harvard; Mus.D., Denison.
- #W. ALFRED EVERHART, 1920-1956 *Professor Emeritus of Chemistry*  
A.B., Miami; M.S., Lehigh; Ph.D., Ohio State.
- DONALD R. FITCH, 1924- *Registrar*  
Ph.B., Denison; M.S., Denison.
- SAM GELFER, 1925- *Associate Professor of Music*
- CAPTAIN RICHARD A. GORDON, USAF, 1956- *Assistant Professor of  
Air Science*  
B.S., University of California at Los Angeles.
- \*LELAND J. GORDON, 1931- *Senior Professor and Chairman,  
Department of Economics*  
B.S., Pennsylvania; A.M., Pennsylvania; Ph.D., Pennsylvania.

\*On sabbatical leave first semester, 1956-57.

†In active service, 1956-57.

#In active service (part-time), 1956-57.

- CHARLES E. GRAHAM, 1953- *Assistant Professor of Geography and Geology*  
B.S., State College of Washington; M.S., State College of Washington; Ph.D., Iowa.
- \*ARNOLD GRUDIN, 1953- *Instructor in Mathematics*  
B.A., New York Univ.; M.A., Columbia.
- WILLIAM L. HALL, 1954- *Instructor in Speech*  
B.A., West Virginia; M.A., West Virginia.
- SUE HAURY, 1928- *Assistant Professor of Music*  
A.B., Denison.
- E. BASIL HAWES, 1923-1953 *Professor Emeritus of Education*  
Ph.G., Starling Medical College; B.S., Ohio State; M.S., Ohio State.
- MAJOR HARRY E. HAYS, USAF, 1953- *Associate Professor of Air Science*  
B.Ed., Tulane.
- FRANCIS B. HELD, 1955- *Instructor in History*  
A.B., Harvard; A.M., Harvard.
- MAYLON H. HEPP, 1946- *Professor and Chairman, Department of Philosophy*  
A.B., Oberlin; M.A., Oberlin; Ph.D., Brown.
- JAMES C. HINKLE, 1956- *Instructor in English*  
B.A., Denison; M.A., Harvard.
- BURT T. HODGES, 1934- *Treasurer*  
B.S., Denison; M.A., Chicago.
- DEWITTE T. HOLLAND, 1956- *Assistant Professor of Speech*  
A.B., Howard College; B.S., U.S. Merchant Marine Academy; M.A., Alabama; B.D., Southern Baptist; Ph.D., Northwestern.
- SAMUEL M. HOLTON, 1956- *Assistant Professor of Education*  
B.A., Duke; M.A., Duke.
- PAULINE O. HOOVER, 1938-1950; 1952- *Associate Catalog Librarian*  
B.A., Denison; B.S. in L.S., Western Reserve.

---

\*On leave first semester, 1956-57.

- RICHARD H. HOWE, 1920- *Associate Professor and Chairman,  
Department of Physics*  
B.S., Denison; M.S., Denison.
- GEORGE R. HUNTER, 1954- *Instructor in Music and Music  
Education*  
B.F.A. in Mus. Ed., Carnegie Tech.; B.F.A. in Mus., Carnegie  
Tech.; M.F.A. in Mus., Carnegie Tech.
- SIDNEY JENKINS, 1920- *Associate Professor of Physical Education*  
B.S., Denison; A.M., Ohio State.
- ALFRED J. JOHNSON, 1928- *Business Manager*  
A.B., Denison; M.B.A., Harvard.
- JOANNE JOHNSON, 1956- *Residence Halls Counselor*  
B.A., Denison; M.A., Indiana.
- STASYS JONAITIS, 1956- *Instructor in Modern Languages*  
M.A., Vilnius (Lithuania); Diploma, Institut de Phonetique  
(France).
- LEONA WISE JONES, 1952- *Dean of Women and Professor of  
Personnel Psychology (part-time)*  
B.S., Ohio State; M.A., Ohio State; Ph.D., Northwestern.
- CHOSABURO KATO, 1928- *Senior Professor, Benjamin Barney  
Chair of Mathematics*  
B.S., Denison; M.S., Chicago; Ph.D., Ohio State.
- CHESTER Z. KELLER, 1956- *Assistant Professor of Philosophy*  
A.B., Bridgewater; M.A., Southern California; Ph.D., Southern  
California.
- DAVID D. KETNER, 1956- *Assistant Professor of Art*  
B.A., University of Washington; M.A., City College, University  
of Mexico; Ph.D., Ohio State.
- HORACE KING, 1931- *Professor and Chairman, Department of Art*  
A.B., Ohio State; A.M., Ohio State.
- JOSEPH L. KING, 1924- *Senior Professor, Lorena Woodrow Burke  
Chair of English*  
A.B., Richmond; A.M., Columbia; Ph.D., Columbia.
- HARRY H. KRUENER, 1952- *Dean of the Chapel*  
A.B., Haverford; B.D., Andover-Newton; S.T.M., Boston Univ.

- A. COLLINS LADNER, 1928-1953      *Assistant Professor Emeritus of Mathematics*  
A.B., Brown; A.M., Brown.
- COL. HAROLD V. LARSON, USAF, 1955-      *Professor of Air Science*  
B.S., Oregon.
- HERMAN W. LARSON, 1944-      *Assistant Professor of Music*  
A.B., Augustana (S. Dak.).
- LELAND C. LEHMAN, 1949-      *Associate Professor of Economics*  
A.B., Bluffton; M.A., Ohio State; Ph.D., Ohio State.
- NANCY ELOISE LEWIS, 1946-      *Assistant Professor of English*  
A.B., Denison; M.A., Duke.
- THOMAS A. LEWIS, 1914-1943      *Professor Emeritus of Psychology*  
A.B., William Jewell; Ph.D., Johns Hopkins.
- ARTHUR W. LINDSEY, 1922-      *Senior Professor of Biological Sciences*  
A.B., Morningside; M.S., Iowa; Ph.D., Iowa; D.Sc., Morningside.
- WALTER J. LIVINGSTON, 1911-1952      *Professor Emeritus of Physical Education*  
B.S., Denison; D.Sc. in Phys. Ed., Denison.
- ROBERT J. LUTZ, 1956-      *Associate Professor of Health Education*  
B.A., Ohio State; M.D., Ohio State.
- ROBERT L. MCCLEERY, 1954-      *Director of Testing and Vocational Services*  
B.A., Denver; M.A., Denver.
- RAYMOND A. MCKENNA, 1955-      *Manager of Book Store*  
B.A., Brown.
- RICHARD H. MAHARD, 1941-      *Professor and Chairman, Department of Geography and Geology*  
A.B., Michigan Normal; M.A., Columbia; Ph.D., Columbia.
- DANNER L. MAHOOD, 1927-      *Associate Professor and Chairman, Department of English*  
B.S., Davidson; M.S., Virginia.
- CHARLES L. MAJOR, 1931-      *Assistant to the President for Development*  
A.B., William and Mary; A.M., William and Mary.

- KENNETH B. MARSHALL, 1953- *Assistant Professor of English*  
A.B., Michigan; M.A., Michigan; Ph.D., Michigan.
- KENNETH W. MEYER, 1952- *Instructor in Physical Education*  
B.A., Denison.
- ROBERT M. MILLER, 1949-1950; 1953- *Assistant Professor of Music*  
Mus.B., Northwestern; Mus. M., Northwestern; Licence de Concert, Paris, France.
- IRVING E. MITCHELL, 1949- *Professor and Chairman,*  
*Department of Sociology*  
A.B., Gordon; M.A., New Hampshire.
- GEORGE D. MORGAN, 1927- *Professor and Chairman, Department*  
*of Biological Sciences*  
B.S., Denison; M.S., Pittsburgh; Ph.D., Ohio State.
- LEROSS MORRIS, 1953- *Director of Physical Plant*  
B.S., Iowa State College.
- E. CLARK MORROW, 1935- *Visiting Lecturer in Government*  
A.B., Denison; LL.B., Western Reserve. (part-time)
- JOSEPHINE P. MOSS, 1950- *Assistant Reference Librarian*  
A.B., Hiram; B.S. in L.S., Western Reserve.
- PAUL T. MOUNTJOY, 1956- *Instructor in Psychology*  
B.S., Lawrence; M.A., Indiana.
- \*\*PAUL E. NELSON, JR., 1950- *Associate Professor of Economics*  
B.A., Oberlin; M.A., American; Ph.D., Iowa State College.
- JOHN W. NICHOL, 1953- *Assistant Professor of English*  
A.B., Denison; M.A., Ohio State; Ph.D., Ohio State.
- WILLIAM J. NICHOLS, 1956- *Instructor in Education*  
A.B., Washburn.
- IRVING A. NICKERSON, 1956- *Professor of Health Education*  
B.A., Ohio State; M.D., Ohio State.
- VIRGINIA C. NORTHROP, 1950-1951; 1953- *Assistant Professor of*  
*Physical Education*  
B.A., William Smith; M.A., Sarah Lawrence.

\*\*On sabbatical leave both semesters, 1956-57.



- RUTH A. OUTLAND, 1941- *Director of Public Information*  
A.B., Coe.
- ANNA B. PECKHAM, 1900-1937 *Associate Professor Emeritus of Mathematics*  
A.B., Wellesley; A.M., Denison.
- HOWARD H. PEPPEL, 1956- *Lecturer and Consultant in Psychiatry*  
B.S., Pittsburgh; M.D. Pittsburgh.  
(part-time)
- LOUIS PETITO, 1953- *Controller*  
B.A., Princeton; C.P.A.
- KEITH W. PIPER, 1951- *Assistant Professor of Physical Education*  
A.B., Baldwin-Wallace; M.A., Western Reserve.
- ANNE F. PIXLEY, 1956- *Instructor in Art*  
B.A., St. Olaf.
- NORMAN H. POLLOCK, 1948- *Associate Professor of History*  
A.B., Denison; A.M., Harvard; Ph.D., Pennsylvania.
- W. CLINTON POWERS, 1956- *Assistant to the President for Church Relations*  
B.A., Wake Forest; B.D., Crozer; M.A., Pennsylvania.
- FRED L. PRESTON, 1949- *Assistant Professor of Modern Languages*  
A.B., Ohio Univ.; A.M., Harvard; Ph.D., Ohio State.
- WILLIAM J. PRESTON, JR., 1954- *Instructor in History*  
A.B., Columbia; M.A., Columbia.
- H. LAMARR RICE, 1953- *Assistant to the President for Annual Support*  
A.B., Denison; B.D., Colgate-Rochester; M.A., Union; M.A., Columbia.
- CONRAD E. RONNEBERG, 1946- *Professor and Chairman, Department of Chemistry*  
B.A., Lawrence; M.S., Massachusetts Institute of Technology; Ph.D., Chicago.
- MATTIE E. ROSS, 1952- *Instructor in Physical Education*  
B.S. in Ed., Central Missouri State Teachers; M.Ed., Missouri.
- EDSON C. RUPP, 1919-1955 *Associate Professor Emeritus of Mathematics*  
Ph.B., Denison; M.S., Denison.
- MARION A. SANBORN, 1956- *Instructor in Physical Education*  
B.Sc., Ohio State; M.A., Ohio State.  
(part-time)

- SAMUEL D. SCHAFF, 1948- *Assistant Professor and Acting Chairman  
of Education*  
A.B., Denison; M.A., Ohio State; Ed.D., Columbia.
- LEE O. SCOTT, 1952- *Associate Professor of Religion and  
Philosophy and Acting Chairman of Religion*  
B.A., Occidental; B.D., Union; Ph.D., Yale.
- RUTH J. SCOTT, 1954- *Instructor in Family Life (part-time)*  
B.A., Univ. of California at Los Angeles; B.Ed., U.C.L.A.; M.A.,  
George Peabody.
- CLAIRE C. SEABURY, 1956- *Instructor in Mathematics*  
B.S., U.S. Naval Academy; C.E., Rensselaer Polytechnic Insti-  
tute; M.C.E., R.P.I.
- \*\*ROBERT SEAGER, 1949- *Assistant Professor of History*  
A.B., Rutgers; A.M., Columbia.
- JANE C. SECOR, 1941- *Librarian for Reader Services*  
A.B., Ohio State; B.S. in L.S., Western Reserve.
- WALTER T. SECOR, 1940- *Professor and Chairman, Department  
of Modern Languages*  
A.B., Grinnell; A.M., Columbia; Ph.D., Columbia.
- \*\*ELLENOR O. SHANNON, 1936- *Associate Professor of English*  
A.B., Tulane; A.M., Columbia.
- ROBERT L. SHANNON, 1954- *Instructor in Physical Education*  
B.A., Denison.
- NATALIE M. SHEPARD, 1950- *Professor and Chairman, Department  
of Physical Education (Women)*  
B.S., Alfred; M.A., Columbia; Ed.D., New York Univ.
- ERI J. SHUMAKER, 1916- *Associate Professor of English*  
A.B., Denison; A.M., Denison; Ph.D., Ohio State.
- ALMA B. SKINNER, 1920-1940 *Assistant Professor Emeritus of  
Modern Languages*  
Ph.B., Denison; A.M., Columbia.
- HENRY J. SKIPP, 1934-1951 *Associate Professor Emeritus of Modern  
Languages*  
A.B., Denison; A.M., Columbia.

---

\*\*On leave both semesters, 1956-57.

- LEON E. SMITH, 1928- *Senior Professor, Henry Chisholm Chair  
of Physics*  
B.S., Ottawa; Ph.D., Pennsylvania.
- MARK W. SMITH, 1953- *Dean of Men and Associate  
Professor of Psychology (part-time)*  
B.A., Ohio State; M.A., Ohio State; Ph.D., Ohio State.
- RICHARD G. SMITH, 1955- *Instructor in Theatre Arts*  
B.S., Purdue; M.A., Illinois.
- WYNDHAM M. SOUTHGATE, 1946- *Professor of History*  
B.A., Harvard; M.A., Harvard; Ph.D., Harvard.
- DWIGHT R. SPESSARD, 1953- *Associate Professor of Chemistry*  
B.S., Otterbein; Ph.D., Western Reserve.
- \*\*ARTHUR P. STABLER, 1952- *Instructor in Modern Languages*  
A.B., Pennsylvania; M.A., Pennsylvania.
- ELIZABETH B. STANTON, 1945-47, 1956- *Visiting Instructor in English  
(first semester only)*  
A.B., Denison; A.M., Radcliffe; Ph.D., Ohio State.
- BRAYTON STARK, 1927- *Associate Professor of Music*  
Mus.B., Denison; A.B., Denison; A.M., Harvard; F.A.G.O.
- CHARLES W. STEELE, 1949- *Assistant Professor of Modern  
Languages*  
A.B., Missouri; M.A., California.
- BEATRICE P. STEPHENS, 1947- *Executive Secretary, Denison  
Society of the Alumni*  
A.B., Lawrence.
- CEPHUS L. STEPHENS, 1949- *Professor and Chairman,  
Department of Government*  
B.S., Ohio State; M.A., Ohio State; Ph.D., Ohio State.
- GUY STERN, 1955- *Assistant Professor of Modern Languages*  
B.A., Hofstra; M.A., Columbia; Ph.D., Columbia.
- ANDREW STERRETT, 1953- *Assistant Professor of Mathematics*  
B.S., Carnegie Tech.; M.S., Pittsburgh; Ph.D., Pittsburgh.

---

\*\*On leave both semesters, 1956-57.

- FREDERICK W. STEWART, 1924-1949     *Professor Emeritus of Religion*  
A.B., Rochester; A.M., Rochester; B.D., Colgate-Rochester.
- MORTON B. STRATTON, 1943-     *Professor of History*  
A.B., Tufts; A.M., Pennsylvania; Ph.D., Pennsylvania.
- JOHN W. SUTTON, 1955-     *Associate Professor of Chemistry*  
A.B., Central College (Missouri); A.M., Stanford; Ph.D., Stanford.
- JACK A. SWINDERMAN, 1954-     *Instructor in Physical Education*  
B.A., Muskingum.
- JAMES M. TANNER, 1956-     *Assistant Professor of Psychology and  
Clinical Psychologist*  
A.B., North Carolina; Ph.D., North Carolina.
- RALPH THOMLINSON, 1956-     *Instructor in Sociology*  
B.A., Oberlin; M.A., Yale.
- HAROLD H. TITUS, 1928-     *Senior Professor, Maria Teresa Barney  
Chair of Philosophy*  
A.B., Acadia; B.D., Colgate-Rochester; Ph.D., Chicago; D. Litt., Acadia.
- HARRY V. TRUMAN, 1948-     *Associate Professor of Biological  
Sciences*  
A.B., Ohio Wesleyan; A.M., Western Reserve; Ph.D., Wisconsin.
- WILLIAM T. UTTER, 1929-     *Senior Professor, Alumni Chair of  
History*  
B.S., Northwestern Missouri State Teachers; A.M., Chicago; Ph.D., Chicago.
- DONALD M. VALDES, 1953-     *Assistant Professor of Sociology*  
B.A., New Jersey State Teachers, Montclair; M.A., George Peabody.
- ELIZABETH C. VANHORN, 1953-     *Instructor in Physical Education*  
B.S. in Ed., Miami; M.S., Wellesley.
- DAVID S. WATSON, 1954-     *Instructor in History*  
B.A., Illinois College.
- CHARLOTTE F. WEEKS, 1944-     *Assistant Director of Admissions*  
A.B., Denison; M.A., Columbia.

- PAUL WEINER, 1955- *Instructor in Economics*  
B.A., Northeastern; M.A., Clark.
- MARION WETZEL, 1946- *Professor and Chairman, Department  
of Mathematics*  
A.B., Cornell College; M.A., Northwestern; Ph.D., Northwestern.
- SAMUEL C. WHEELER, 1948- *Assistant Professor of Physics*  
A.B., Miami; M.S., Illinois.
- #FORBES B. WILEY, 1910-1950 *Professor Emeritus of Mathematics*  
A.B., Kalamazoo; A.B., Chicago; Ph.D., Chicago; D.Sc., Kalamazoo; LL.D., Denison.
- RUSSEL H. WILLIAMS, 1926-1953 *University Health Officer Emeritus*  
B.S., Denison; M.D., Ohio State.
- FREDERICK M. WIRT, 1952- *Assistant Professor of Government*  
B.A., DePauw; M.A., Ohio State; Ph.D., Ohio State.
- IRVIN S. WOLF, 1954- *Professor and Chairman, Department  
of Psychology*  
A.B., Manchester; M.A., Indiana; Ph.D., Indiana.
- EDWARD A. WRIGHT, 1937- *Professor and Chairman, Department  
of Theatre Arts*  
A.B., Iowa; A.M., Iowa.
- RIX N. YARD, 1946-1949; 1953- *Professor and Chairman, Department  
of Physical Education (Men)*  
B.S., Pennsylvania; M.S., Pennsylvania; Ed.D., Pennsylvania.

#In active service (part-time), 1956-57.

# INDEX

## A

Academic Honors, Standing .....	41
Acceptance Procedure .....	21
Accrediting .....	7
Activities, Student .....	9, 133
Administrative Staff .....	139
Admission, Preliminary Application .....	19
Advanced Standing .....	21
Air Force ROTC .....	16, 60, 67
Air Science .....	67
Applied Music .....	51, 105, 130
Area Studies, Major in .....	65
Art .....	61, 68
Arts-Professional Courses .....	57
Astronomy .....	70
Athletics .....	13
Awards .....	42

## B

Bachelor of Arts .....	48
Bachelor of Music .....	51
Bachelor of Science .....	48
Bachelor of Science in Education .....	50
Bills, Payment of .....	30
Biological Sciences .....	62, 72
Board .....	29
Books and Supplies .....	30
Buildings .....	10
Business Council .....	24
Business, Major in .....	79

## C

Calendar, Academic .....	2, 6
Carnegie Institute of Technology, Cooperation with .....	58
Chapel Attendance .....	8, 49
Chemistry .....	62, 75
Child Development, Major in .....	66
Christian Emphasis .....	8
Classical Languages .....	77

Classification of Students .....	27
Combination Courses .....	57
Community Recreation, Major in .....	66
Composition .....	60
Comprehensive Examination .....	55
Concentration, Field of .....	48
Conservatory of Music .....	30, 127, 130
Convocation Attendance .....	9, 49
Cooperative Arrangements .....	57
Cooperative House .....	13
Counseling .....	23
Courses of Study .....	59
Departmental .....	65
General Education .....	59, 64
Cultural Development .....	9

## D

Deans of Students .....	23, 139
Dean's List of Annual Honors .....	41
Degrees Conferred .....	47
Degree Requirements .....	48
Denison Business Council .....	24
Denison Campus Government Association .....	14
Denison Scientific Association .....	10
Denison Society of Arts and Letters .....	10
Denison University Research Foundation .....	10
Departmental Courses .....	65
Deposits .....	20
Dining Halls .....	12
Directed Study .....	55
Dramatics .....	61, 124
Duke University, Cooperation with .....	58

## E

Economics .....	79
Education .....	82
Elective Courses .....	50
Eligibility Rule .....	28
Employment, Student .....	39
Engineering, Profession of .....	58
Engineering Science .....	85

# INDEX

155

English .....	60, 86
English Requirements .....	53
Enrollment, Classified .....	18
Enrollment, Geographical .....	17
Entrance Requirements .....	20
Examinations .....	21, 54
Exchange Students .....	56
Expenses .....	29
Extracurricular Activities .....	14, 133

## F

Faculty .....	127, 141
Family Life .....	66, 89
Fees .....	20, 29
Foreign Language .....	62
Forestry Course .....	58
Fraternities .....	15
French .....	100

## G

General Education .....	59, 64
General Information .....	7
Geography .....	90
Geology .....	91
German .....	102
Government .....	92
Grade-Point System .....	53
Graduate Honor Scholarships .....	35
Graduate Record Examination .....	54
Graduation with Honors .....	41, 56
Grants-in-Aid .....	37
Greek .....	78
Guidance, see Student Personnel Services .....	23

## H

Health .....	14
History .....	61, 95
History, Denison .....	7
History of Western Civilization .....	61
Honor Scholarships .....	33
Honorary Societies .....	41
Honors .....	56
Hospital .....	12, 29, 139



## I

Independent Study .....	66
Italian .....	103

## J

<i>Journal of Scientific Laboratories</i> .....	10
---	----

## L

Language and Literature .....	62
Latin .....	78
Law .....	57
Loan Funds .....	40
Location .....	7

## M

Majors, Kinds of .....	65
Mathematics .....	61, 97
Medicine .....	57
Merrill-Palmer School .....	56
Modern Languages .....	62, 100
Music .....	9, 30, 51, 53, 61, 105, 127, 130

## O

Objectives, University .....	4
Organizations .....	9, 14, 41, 133
Orientation of New Students .....	23

## P

Personnel Administration, Major in .....	115
Phi Beta Kappa .....	41
Philosophy .....	62, 63, 107
Physical Education .....	49, 109
Physics .....	62, 112
Plan of Study .....	47
Portuguese .....	103
Prizes .....	42
Probation .....	54
Professions, Training for .....	57
Psychologist .....	23, 139
Psychology .....	115

## R

Radio .....	122
Refunds .....	20, 31
Registration .....	26
Religion .....	63, 118
Rensselaer Polytechnic Institute, Cooperation with .....	58
Requirements, Admission .....	20
Requirements, Degree .....	48, 53, 64
Research Foundation .....	10, 34, 42
Reservations, Cancellation of .....	31
Residence Halls .....	12
Room Deposit .....	20
Room Rent .....	29

## S

Scholarships .....	33
Scholastic Requirements .....	53
Scientific Association .....	10
Secondary School Certificate (Teaching) .....	50
Services, Student Personnel .....	23, 139
Social Life .....	14
Social Science .....	63, 66
Society of Arts and Letters .....	10
Sociology .....	63, 119
Sororities .....	15
Spanish .....	103
Speech .....	60, 122
Student Exchange .....	56
Student Government .....	14
Students Enrolled .....	17, 18
Superior Students .....	55
Suspension .....	54

## T

Teacher Placement .....	25
Teaching Certificate .....	50, 82
Theatre Arts .....	61, 124
Transdepartmental Courses .....	65
Transdepartmental Majors .....	65

Transfer Students .....	21, 28
Trustees, Board of .....	135
Tuition .....	29

## U

University of Chicago, Cooperation with .....	57
---	----

## V

Veterans, Counseling of .....	25
Vocational Services .....	24

## W

Washington Semester Plan .....	56
Withdrawal from Courses .....	27
Withdrawal from the University .....	27