DIRECTORY OF CORRESPONDENCE
Granville, Ohio, 43023

Mail will be delivered more promptly if P.O. Box appears:

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<tr>
<th>Department</th>
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<td>General Information</td>
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<tr>
<td>Admissions</td>
<td>Office of Admissions, Box 149</td>
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<td>Cashier’s Office, Box 239</td>
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<td>Employment of Seniors</td>
<td>Office of Vocational Services, Box 118</td>
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<td>Football</td>
<td>Football Coach, Box 637</td>
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<td>Transcript, Academic Record</td>
<td>Office of Registrar, Box 248</td>
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<td>Trustees</td>
<td>Office of Treasurer, Box 652</td>
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Offices in Doane Administration Building are open Monday through Friday from 8:30 a.m. to noon and 1 to 4:30 p.m. (4 p.m. EST during summer months). The Office of Admissions is open Saturday forenoons from mid-September to Commencement.
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A View of the Campus

DENISON UNIVERSITY

and a portion of the Village of

GRANVILLE - OHIO
### Calendar for 1963-64

**JULY**

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# DENISON CALENDAR FOR 1963-64

## First Semester 1963

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<tr>
<td>September 14</td>
<td>Saturday</td>
<td>New student days begin</td>
</tr>
<tr>
<td>September 19</td>
<td>Thursday</td>
<td>Registration</td>
</tr>
<tr>
<td>September 23</td>
<td>Monday</td>
<td>Classes begin, 8 a.m.</td>
</tr>
<tr>
<td>October 12</td>
<td>Saturday</td>
<td>Homecoming</td>
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<tr>
<td>November 2</td>
<td>Saturday</td>
<td>Dad's Day</td>
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<tr>
<td>November 27</td>
<td>Wednesday</td>
<td>Thanksgiving vacation, noon</td>
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<tr>
<td>December 2</td>
<td>Monday</td>
<td>Classes resume, 8 a.m.</td>
</tr>
<tr>
<td>December 7</td>
<td>Saturday</td>
<td>Early registration for spring semester ends</td>
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<tr>
<td>December 20</td>
<td>Friday</td>
<td>Christmas vacation, noon</td>
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## 1964

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<tr>
<td>January 6</td>
<td>Monday</td>
<td>Classes resume, 8 a.m.</td>
</tr>
<tr>
<td>January 10-11</td>
<td>Friday-Saturday</td>
<td>Graduate record exams (seniors)</td>
</tr>
<tr>
<td>January 24</td>
<td>Friday</td>
<td>Classes end, 5 p.m.</td>
</tr>
<tr>
<td>January 25-26</td>
<td>Saturday-Sunday</td>
<td>Reading period</td>
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<tr>
<td>January 27</td>
<td>Monday</td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>February 1</td>
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<td>First semester ends, 4 p.m.</td>
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## Second Semester 1964

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<td>Wednesday</td>
<td>Registration</td>
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<td>February 6</td>
<td>Thursday</td>
<td>Classes begin, 8 a.m.</td>
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<tr>
<td>March 21-25</td>
<td>Saturday-Wednesday</td>
<td>Comprehensive exam reading period</td>
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<tr>
<td>March 25-26</td>
<td>Wednesday</td>
<td>Spring vacation, noon (except seniors)</td>
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<tr>
<td>March 26</td>
<td>Thursday</td>
<td>Comprehensive examinations begin</td>
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<tr>
<td>March 28</td>
<td>Saturday</td>
<td>Vacation for seniors begins, 4 p.m.</td>
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<tr>
<td>March 29</td>
<td>Sunday</td>
<td>Easter</td>
</tr>
<tr>
<td>April 6</td>
<td>Monday</td>
<td>Classes resume, 8 a.m.</td>
</tr>
<tr>
<td>April 25</td>
<td>Saturday</td>
<td>Early registration for fall semester ends</td>
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<tr>
<td>May 9-10</td>
<td>Saturday-Sunday</td>
<td>May Day-Mother's Day</td>
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<td>Second semester ends, 4 p.m.</td>
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<td>June 7</td>
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<td>Baccalaureate service, 3 p.m.</td>
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<td>123rd Annual Commencement 9:30 a.m.</td>
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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;
Objectives

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 for 1964-65

#### 1964

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DENISON CALENDAR FOR 1964-65

FIRST SEMESTER 1964

September 12  Saturday  New student days begin
September 17  Thursday  Registration
September 21  Monday  Classes begin, 8 a.m.
October 17  Saturday  Homecoming
November 7  Saturday  Dad's Day
November 25  Wednesday  Thanksgiving vacation, noon
November 30  Monday  Classes resume, 8 a.m.
December 5  Saturday  Early registration for spring semester ends
December 18  Friday  Christmas vacation, noon

1965

January 4  Monday  Classes resume, 8 a.m.
January 8-9  Friday-Saturday  Graduate record exams (seniors)
January 22  Friday  Classes end, 5 p.m.
January 23-24  Saturday-Sunday  Reading period
January 25  Monday  Final examinations begin
January 30  Saturday  First semester ends, 4 p.m.

SECOND SEMESTER 1965

February 3  Wednesday  Registration
February 4  Thursday  Classes begin, 8 a.m.
March 25  Thursday  *Comprehensive exam, reading begins
March 31  Wednesday  *Spring vacation, noon (except seniors)
April 1  Thursday  *Comprehensive examinations begin
April 3  Saturday  *Vacation for seniors begins, 4 p.m.
April 12  Monday  Classes resume, 8 a.m.
April 16  Friday  Classes end, noon
April 18  Sunday  Easter
April 24  Saturday  Early registration for fall semester ends
May 8-9  Saturday-Sunday  May Day-Mother's Day
May 28  Friday  Classes end, 5 p.m.
May 29-30  Saturday-Sunday  Reading period
May 31  Monday  Final examinations begin
June 5  Saturday  Second semester ends, 4 p.m.
June 13  Sunday  Baccalaureate service, 3 p.m.
June 14  Monday  124th Annual Commencement, 9:30 a.m.

* Dates subject to change by faculty action.
An Introduction to Denison

HISTORICAL SKETCH

Denison University, an independently administered and financed, co-educational Christian college of liberal arts and sciences, was founded in 1831 as the Granville Literary and Theological Institution by the Ohio Baptist Education Society, an organization of laymen.

Established to train men, the college became co-educational gradually after 1897 when the men from Granville College and the women from Shepardson College began to attend some of the same classes.

The first Commencement exercises were held in 1840 and annually thereafter except in 1853 and 1855.

New leadership and support led in 1856 to the change of name after William S. Denison, Muskingum County (Ohio) farmer, had agreed, during a fund-raising campaign, to contribute the sum of $10,000 in fulfillment of the offer to name the institution for him.

In its 132 years the 14 Presidents of Denison have been John Pratt, 1831-37; Jonathan Going, 1837-44; Silas Bailey, 1846-52; Jeremiah Hall, 1853-63; Samson Talbot, 1863-73; E. Benjamin Andrews, 1875-79; Alfred Owen, 1879-86; Galusha Anderson, 1887-89; Daniel B. Purinton, 1890-1901; Emory W. Hunt, 1901-
Denison University Bulletin

13; Clark W. Chamberlain, 1913-25; Avery A. Shaw, 1927-40; Kenneth I. Brown, 1940-50; and A. Blair Knapp, 1951-.

LOCATION

Granville was settled in 1805 by Americans emigrating from Granville, Massachusetts. This village in Central Ohio is situated seven miles west of the Courthouse Square in Newark, which is the seat of Licking County; and 27 miles east of the State Capitol grounds in Columbus. It is 22 miles from the Columbus Airport.

Motorists will find that Interstate 70 is less than 10 miles south and Interstate 71 connects with Ohio 161 at Worthington (26 miles west of Granville) and with Ohio 13 four miles south of Mansfield. By the latter route travelers change to Ohio 661 at Mount Vernon. Other State routes reaching the village are 16 and 37.

For the first quarter century the college was located on a farm one mile southwest of Granville, the present site of Middleton House, which is now the College Guest House. In 1856 the change in location took the campus to the hill at the north edge of the village. A substantial addition to the college was made when the campus of Shepardson College for Women was made part of the Denison property in the merger about 1900, although it was not consummated finally until 1927.

In 1917 Col. Edward A. Deeds, alumnus of 1897, donated to the college 280 acres of farm lands adjoining the campus. Subsequent additions to contiguous lands and other properties have increased the present holdings to 500 acres.

ACCREDITATION

Denison is fully accredited by the major rating agencies. When the North Central Association of Colleges and Secondary Schools was formed in 1913, Denison was placed on its original list. Other agencies recognizing and approving Denison are the Association of American Universities, The Ohio College Association, The Ohio State Department of Education, American Association of University Professors, American Association of University Women, and American Chemical Society.
An Introduction to Denison

Denison's premedical program is recognized by all Class A medical schools in the U.S.A.

The Conservatory of Music which was established in 1890 is currently a department of music. As such it is a liberal arts member of the National Association of Schools of Music.

Denison's chapter of Phi Beta Kappa was installed in 1911.

CONTROL

Denison is Administered by a self-perpetuating Board of Trustees composed of 36 members, 30 of whom are elected and reelected for terms of three years each. The remaining six members are chosen by the Denison Society of the Alumni, each being elected for one six-year term. The President of Denison is ex officio a member of the Board of Trustees.

RESOURCES

As Recorded May 31, 1963, the total market value of Denison's endowment fund assets was $13,476,400, of which approximately $3,000,000 represents annuity funds. The book value of the plant including grounds, buildings, and equipment was $12,670,666.

Endowment has been acquired through gifts and bequests. Several modern buildings have been financed through capital-gift campaigns. The Annual Support program yields a substantial sum in gifts from alumni, parents of students, and other friends.

Talbot Hall is oldest classroom building
CAMPUS

DENISON'S CAMPUS, which consists of 500 acres on College Hill and adjacent land in both the valleys to the north and the south of the hill, provides ample space for expansion.

On the horseshoe-shaped ridge the major academic buildings are at the center— the library, classroom buildings and laboratories, the college union, and the chapel. At the east end are the women's residence halls and dining hall, and the college hospital. To the west are the men's residential units including two spacious halls and nine fraternity chapter houses.

In the valley directly north of the ridge lie the extensive athletic and recreation fields and the buildings providing facilities for various sports.

On the Lower Campus to the south of the ridge are the buildings used for the Fine Arts, eight sorority chapter houses, and one fraternity chapter house. The other sorority chapter home is in the next block.

BUILDINGS

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 1940 stands directly east of the Chapel.

The William Howard Doane Library. This structure stands at the head of the Academic Quadrangle. Erected in 1937, it replaced the original building presented by Dr. Doane in 1878.
newer structure was the gift of his daughters, Mrs. George W.
Doane and Miss Ida Frances Doane. In 1958 an addition doubled
the reading room and stack space.

*Doane Administration Building*. The one-time academy build-
ing contains the college offices and three classrooms. It was the
gift of Dr. Doane in 1894.

*Life Science Building*. Erected in 1941, it is used
by the departments of biology, psychology, and philosophy. This building
was the gift of Miss Ida Frances Doane.

*Barney Science Hall*. It 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*. This 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, this unit will be replaced in the near future. The annex built in 1958 added important laboratory equipment.

Slayter Hall. This College Union building, the gift of Mr. and Mrs. Games Slayter, was built on the Academic Quadrangle in 1961-62.

Classroom Building. This structure to house the departments of English, history, and modern languages is under construction to be ready for occupancy by the fall of 1964, thus relieving the overcrowded condition in Talbot Hall.

Whisler Hospital. Built in 1929, it is a memorial to Helen Arnett Whisler, and is located near the Women's Quadrangle.

Cleveland Hall. Located 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. In the
near future it will be converted to other uses when the Women's Gymnasium unit is built to complete the Physical Education Center.

**Doane Art Building.** On the Lower Campus, this building 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, it contains the workshop for building scenery and making costumes with ample space for storing both scenery and costumes. Its small 200-seat auditorium, known as the Ace Morgan Studio Theatre, is named for a former student, LeRoy Morgan, Class of 1945, who lost his life in World War II. Its library contains 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.

Other buildings in the Lower Campus group are Recital Hall, Burton Hall serving temporarily as the Conservatory of Music; Shepardson Hall, headquarters for the Air Force ROTC; King Hall, residence for upperclass men; and Stone Hall apartments for faculty, staff, and married students.

*Theatre Workshop also houses Ace Morgan Theatre*
Every student has a lock box in Slayter Hall.

Slayter Hall Snack Bar
Huffman Hall has dining facilities for 750 women and rooms for 77 upperclass women

LIVING UNITS

Denison Recognizes the experience of group living as an important part of a college education. To that end the University operates residences 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 ten fraternity chapter houses, in three college-operated residence halls as accommodations are desired, or in approved private dwellings in the village.

Women's Quadrangle. Located on College Hill, at the eastern end of the ridge, it consists of seven residence halls accommodating approximately 700 women. They are Shaw Hall, named in honor of the late President and Mrs. Avery A. 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; Gilpatrick House; and two halls built in 1960. The latter are Crawford Hall, residence for 200 freshmen, named for Frederick C. Crawford; and Huffman Hall, dining hall with rooms for 77 women on the two upper floors, named for three generations of the Huffman family of Dayton, Ohio, who have served as Denison Trustees.
Sororities maintaining chapters at Denison are Chi Omega, Kappa Alpha Theta, Delta Delta Delta, Kappa Kappa Gamma, Alpha Phi, Alpha Omicron Pi, Delta Gamma, Pi Beta Phi, and Alpha Chi Omega. Their chapter homes are used for social purposes only, not as residences for students.

All Freshman Men live in college-operated residence halls. Curtis Hall, both West and East wings, accommodates 195 students, some of whom are upperclass men. Dining facilities in Curtis West, enlarged in 1958, are adequate to care for residents in both wings and for 130 freshman and upperclass men 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.

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, Delta Upsilon, and Alpha Tau Omega. All 10 chapter homes are residential units for most of the upperclass men.

King Hall. On the Lower Campus, this building is also operated as a living unit for men above the classification of freshmen.
Freshman men live in Curtis Hall — east and west wings

King Hall is a men's living unit

Entering and upperclass men live in Smith Hall
Communion Service in Swasey Chapel
Activities

RELIGIOUS ACTIVITIES

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 Denison Christian Association coordinates the student religious activities. Included are 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.

One three-day period in the second semester is organized as Life-in-Focus during which students and faculty participate in special chapel programs and class discussions with a guest speaker.

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.

LIBRARY RESOURCES

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.

RESEARCH FOUNDATION

The Denison University Research Foundation, established in 1942 by a gift from Elmer M. Jones, Class of 1903, fosters and encourages constructive research in the arts and sciences by awarding Research Scholarships to men and women of promise—both faculty and graduate students.

DENISON BUSINESS COUNCIL

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.

Among these firms are Battelle Memorial Institute, Columbus, Ohio; The Corrugated Container Company, Columbus, Ohio; General Electric Company, Coshocton, Ohio; General Motors
Corporation, Dayton, Ohio; The Goodyear Tire and Rubber Company, Akron, Ohio; Harper & Row, New York, New York; The F. & R. Lazarus Company, Columbus, Ohio; Merrill Lynch, Pierce, Fenner & Smith, Inc., Columbus, Ohio; The National Cash Register Company, Dayton, Ohio.

Others are The Ohio Power Company, Newark, Ohio; The Ohio Bell Telephone Company, Columbus, Ohio; Owens-Corning Fiberglas Corporation, Toledo, Ohio; Park National Bank, Newark, Ohio; Sears, Roebuck and Company, Chicago, Illinois; The Standard Oil Company (Ohio), Cleveland, Ohio; Stouffer Foods Corporation, Cleveland, Ohio; Suburban Motor Freight, Columbus, Ohio; Thompson Ramo Wooldridge Inc., Cleveland, Ohio; United Air Lines, Chicago, Illinois; and The Union Central Life Insurance Company, Cincinnati, Ohio.

The Denison Business Council makes available to the students the counsel of policy-making officers of the several 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.

PUBLICATIONS

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.

A monthly publication, at Denison, was established in 1941. Enlarged in 1953, it circulates free of charge among alumni, trustees, faculty, students, parents of students, Baptist ministers of Ohio, principals, headmasters, and guidance officers of secondary schools, and a host of other friends of Denison.

Since 1959 Denison has published the Psychological Record, quarterly journal dealing with articles in theoretical and experimental psychology.

Any 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 semi-annual literary magazine; and the Adytum, the yearbook.
CULTURAL ADVANTAGES

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 choral groups, and the Denison String Orchestra. 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.

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.

Dramatic productions of professional excellence are presented by the two theatres—University and Summer—operated at Denison.

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.

The Denison Campus Government Association also operates its 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.
STUDENT GOVERNMENT

Denison Students operate their own student organizations with a great degree of freedom and are regular members on policy-making groups of the University's administrative bodies, such as the committees on admissions, curriculum, and activities. 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 Auto Court. Students are also members of 10 faculty committees.

In each college-operated residence hall a House Council, made up of elected students, is responsible for hall activities in cooperation with the Assistant Deans of Women.

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. And Denison's traditions and principles, accepted by each student in his act of voluntary registration, require conduct in keeping with the standards of good society. The University specifically forbids the possession or use of alcoholic beverages on the campus, in the fraternity and sorority houses, college buildings, and in any college-approved off-campus housing. 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 through the 10 fraternities and nine sororities in developing an adequate social program. All of these national organizations maintain chapter houses on or near the campus, generously sharing their facilities with the students, faculty, and townspeople.
ATHLETIC PROGRAM

BUILDINGS AND SPACIOUS FIELDS materially aid the athletic director in providing an extensive sports program. Descriptions follow:

Deeds Field. This area was named for the donor, Colonel Edward A. Deeds of the Class of 1897. It 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, it was completed in 1950. Primarily the center of physical education for men, it serves a variety of college and community uses. The only section named when the building was erected was the Alumni Memorial Field House. This portion contains the indoor track and the undercover practice area for football, baseball, tennis, and volleyball teams.

In 1957 the remainder of the building was named the Livingston Gymnasium in honor of Walter J. Livingston, Class of 1909, who served as director of athletics from 1911 to 1952. This portion contains a completely modern gymnasium with apparatus and equipment rooms, classrooms, offices, and a spacious basketball court capable of seating 3,000 spectators. 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.

In 1962 the Gregory Swimming Pool, named in memory of Mitchell O. Gregory, Class of 1929, an outstanding athlete, was completed. It serves the needs of both men and women. An additional wing to serve as the Women’s Gymnasium is to be erected soon.

Additions on the practice field to the north and west of Fraternity Row accommodate football, soccer, and lacrosse teams.

On the north campus at the center of the women’s athletic
Winning broad jump

Football is major sport at Denison

Big Red ranks high in baseball
Basketball is thriller

Lacrosse team is champion

Ebaugh Pond is in campus recreation area
grounds is Lamson Lodge, named for the donor, Julius G. Lamson. 
It serves as a shelter house and recreation classroom.

Sports Activities. 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, swimming, track, cross-country, baseball, tennis, golf, lacrosse, and wrestling. It also has an Ice Hockey Club.

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.

Denison's intramural athletic competition is one of the most extensive in the nation. It excludes men on varsity teams. Contest areas are football, speedball, basketball, track, wrestling, volleyball, softball, swimming, tennis, golf, handball, paddleball, table tennis, and bowling.

Women's Recreation Association also sponsors intramural contests. Class work in various sports for women permits choices from archery, badminton, bowling, square dancing, modern dance, fencing, golf, hockey, horseback riding, lacrosse, swimming, tennis, volleyball, and outing activities.
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, the clinical psychologist, the college physician, specialists in family life and religion, selected faculty counselors, departmental chairmen, two assistant deans of women, student head residents for men, and student junior advisers for men and for women.

Counseling of Freshmen. 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.

Junior Advisers. In the residence halls junior advisers, a selected group of upperclass students, aid the freshmen in learning the many new phases of life in college. Two assistant deans of women serve as counselors for women. Senior head residents in each hall for men also counsel students.

OFFICE OF STUDENT PERSONNEL

The Office of Student Personnel has been established so that students may turn to it in finding and using the various resources
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It
is staffed bv tin* deans of
students Dean of Women
and
Men, the clinical psychologist, and the director of
testing and vocational services. In addition to providing specialized
counseling for individuals the Office of Student Personnel coordi-
nates many student activities. It keeps for each student a cumu-
lative personnel record; it helps each student to discover his own
interests and aptitudes so that he may wisely plan his entire col-
lege program.

STUDENT HEALTH SERVICE

DENISON RECOGNIZES its responsibility for the health and well-
being of its students by providing medical service, adequate health
instruction, and the efficient administration of dining halls and
residence halls. The director of student health service is a physi-
cian. On his staff are four registered nurses who assist him in
maintaining 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.

Instruction Offered. 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.

Food Preparation. In administering the residence halls and
dining halls, Denison takes every safeguard to protect the health
of its students. Trained dietitians supervise the choice, prepara-
tion, and serving of food.

TESTING AND VOCATIONAL SERVICES

The Office of Testing and Vocational Services is the Denison
center for testing and guidance for the student with educational
and vocational problems. The services available to the student in-
clude personal counseling on educational and vocational prob-
lems; information about advanced programs of study in gradu-
ate and professional schools and the opportunities for scholarships,
Dean Smith and senior head residents confer

Miss Lister counsels upperclass women

Dean Hartshorn meets junior advisers informally
fellowships, and assistantships; tests of intelligence, interest, aptitude, achievement, and personality; placement in campus and summer jobs and, for seniors and alumni, placement in permanent positions.

STUDENT EMPLOYMENT

Grant-in-Aid work is made available to a limited number of worthy students who need to earn a part of their expenses in college. Denison is thus maintaining a tradition established by its founders. A variety of work is offered, such as assisting in the laboratories, residence halls, dining halls, academic and business departments, and with the maintenance of the campus.

*Application for Work.* A student seeking employment on the campus should apply to the Office of Testing and Vocational Services except freshmen entering in the fall. The latter should file the written request with the Office of Admissions after acceptance as a student and before college opens.

MILITARY SERVICE

The Military Adviser counsels a student concerning his obligation under Selective Service and makes the official statement to Selective Service Boards concerning the student's class standing and his enrollment at Denison. He also makes available information concerning opportunities for securing a commission in the Army, Air Force, Marine Corps, and Navy. He serves in a liaison capacity between Denison and its resident Air Force ROTC Unit.

*Veteran Counseling.* Matters involving students who have been in a branch of the military service or those who are sons or daughters of deceased veterans are handled by the Dean of Men.

TEACHER PLACEMENT

Denison's 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.
Dr. Tritt is clinical psychologist

Dr. Sinclair has hospital clinic daily

Dr. Schaff advises on job opportunities, graduate fellowships
Scholarships and Grants-in-Aid

DEdISON UNIVERSITY recognizes promise and intellectual attainment of its students by awarding a number of Tuition, Honor, Founders, grants-in-aid, and special scholarships. 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 by the completion of a Parent's Confidential Statement which is to be sent to The College Scholarship Service, Princeton, New Jersey. Forms for such application may be obtained from a high school or preparatory school.

SCHOLARSHIPS

Tuition Scholarships. These scholarships of $4,800 are awarded on a 4-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 $600 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. Request to the Office of Admissions for application blank should be made prior to March 1.

_Honor Scholarships._ These part-tuition Honor Scholarships are similar to Tuition Scholarships except that the financial award is less than full tuition. The award is for four years, providing the recipient maintains a 3.0 grade-point average.

_Founders' Scholarships._ For varying amounts these Founders' Scholarships 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 at least a 2.75 grade average.

_Grants-in-aid._ These should be sought only by those who believe they need help in meeting the expenses of their college education. A grant-in-aid is awarded for one year only, subject to renewal by 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.

Beginning with the Class of 1967 the assignment or renewal of a grant-in-aid will be based on the following requirements: a 2.2 average in the freshman year for a grant in the sophomore year; a 2.4 average in the sophomore year for a grant in the junior year; and 2.6 average in the junior year for a grant in the senior year. In every year other than the freshman year, aid will be withdrawn for the second semester if the academic average for the first semester falls below a 2.0. Exceptions may be made by the Scholarship Committee in cases involving significant contributions to the college or extenuating circumstances.

_The Ebenezer Thresher Fund._ The income from this fund ($10,000) 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 3.0 grade average is maintained.

The Mary Hartwell Catherwood Scholarship Fund. The income from this fund ($2,000) 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. The income from this fund ($5,020) is awarded by the Committee on Scholarships to students who have shown proficiency in courses in American History.

The Cora Whitcomb Shepardson Scholarship Fund. The income from this fund ($5,000) is awarded by the Committee on Scholarships to students who have shown proficiency in courses in Visual Arts.

The Willis A. and Frances W. Chamberlin Scholarship Fund. The income from this fund ($2,848) is used to aid students of high scholarship majoring in the Humanities.

The Juliet Barker Sattel Scholarship Fund. This $10,000 fund yields an income awarded to students who have shown general excellence in their academic work, particularly in English and in theatre arts. Scholarships, one or two in each subject, are awarded by the Committee on Scholarships at the end of the junior year upon recommendation by the chairmen of the respective departments.

The Walter Leroy Flory Scholarship Fund. To qualify for aid from the income on this $2,500 fund a student must be a member of the junior class who may be expected to graduate with his class, and be adjudged by the Committee on Scholarships to show promise of professional success and leadership.
The Kenneth I. Brown Scholarship Fund. The income from this $30,000 fund, established by the Danforth Foundation, Inc., to honor its executive director (1951-61) who also served as the 13th President of Denison University (1940-50), is awarded by the Committee on Scholarships to a senior or junior man who is interested in teaching as a career. The amount of the grant is not less than $1,200 nor more than $1,500 a year. Selection is based on high scholastic ability, character, and personal qualifications.

The Edward A. Wright Theatre Arts Fund. The income from $10,967 is used to encourage and help students who show special talent in any of the theatre arts.

The Phi Beta Kappa Golden Anniversary Scholarship Fund. This fund of $2,030 was established by the Theta of Ohio Chapter of Phi Beta Kappa on the 50th anniversary of its installation at Denison University. The income from the fund is awarded to outstanding students.

HONOR SCHOLARSHIPS IN MUSIC

The Eliza Smart Shepardson Scholarship Fund. The income from $2,700 is awarded by the Committee on Scholarships to worthy students enrolled in the Conservatory of Music.

The Gertrude Carhartt Brelsford Memorial Fund. The income from $2,000 is awarded to worthy students enrolled in the Conservatory of Music.

The Presser Music Foundation Scholarships. The sum of $400 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 Research Foundation Scholarships. These scholarships of varying amounts are awarded annually to a few graduating seniors for one year of graduate study. Selection is based on financial need, intellectual ability, and leadership qualities.
The Denison University Tuition Scholarship of The Ohio State University. This is one of the Ohio College Tuition scholarships established by the trustees of The Ohio State University and is open to a graduate 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 in 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 Scholarships for The University of Chicago Law School and the Business School. One 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. Entry to the Business School is also available on a scholarship. 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 in 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, the Danforth Foundation, and other Foundation grants are available to Denison 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 $250 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.

Granville Centennial Scholarship. This 4-year award amounting to $150 a year goes to a high ranking student in the graduating class of the Granville High School. Selection is made 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 in 1931.

The Lubrizol Scholarship. This scholarship supported by the Lubrizol Foundation of Cleveland, Ohio, to encourage study in chemistry provides $200 to a major student selected by the department of chemistry.

The LaVerne Noyes Scholarship Fund. These scholarships are restricted to needy students who are children or blood descendants of those who served in the Army or the Navy of the United States in World War I.

The Alma B. Skinner Scholarship Fund. This fund in the amount of $1,000 was established by the Blasdel Family in June, 1959, and is to be expended over a 5-year period. It honors a member of the Denison faculty (1920-40).

University Theatre stages "Much Ado About Nothing"
ENDOWED FUNDS FOR GRANTS-IN-AID AND SCHOLARSHIPS

FOR MEN AND WOMEN

The American Baptist Convention Fund ($77,345)
The Blanche D. Beattie Scholarship Fund ($18,570)
The Frederick P. and Mary T. Beaver Scholarship Fund ($80,843)
The Mary F. and Fred W. Benjamin Memorial Scholarship Fund ($1,000)
The Millard Brelsford Memorial Scholarship Fund ($1,550)
The Samuel B. Brierly Scholarship Fund ($276,666)
The Lester C. and Nell S. Bush Fund ($10,653)
The Wells A. and Cynthia Aldrich Chamberlain Scholarship Fund ($5,000)
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 Edward Taylor Glissold Memorial Scholarship Fund ($3,349)
The Blanche Lemit Copeland Scholarship Fund ($21,942)
The Denison Memorial Scholarship Fund ($2,326)
The John H. Doyle Scholarship Fund ($2,500)
The Elizabeth S. Ewart Scholarship Fund ($2,506)
The Frank C. Ewart Memorial Scholarship Fund ($4,000)
The Minnie Farmer Miller Scholarship Fund ($500)
The Lelia Milward Firth Scholarship Fund ($1,000)
The Ray C. Fish Fund ($120,750)
The Dora A. Forsythe Scholarship Fund ($9,738)
The Robert K. Fox Fund ($5,373)
The David E. Green Memorial Scholarship Fund ($3,537)
The G. O. Griswold Scholarship Fund ($5,000)
The Masuo S. and Kiyo Hoshida Scholarship Fund ($907)
The H. Rhodes Hundley Memorial Scholarship Fund ($2,000)
The Emory W. Hunt Scholarship Fund ($7,858)
The John P. Levis, Jr., Speech Fund ($962)
The Charles T. Lewis Scholarship Fund ($5,000)
The Blanche McCoy-Humphrey Scholarship Fund ($2,500)
The Morrow Pre-Law Scholarship Fund ($2,000)
Scholarships and Grants-in-Aid

The Leslie B. Moss Scholarship Fund ($25,641)
The N. W. Neptune Scholarship Fund ($200)
The LaVerne Noyes Scholarship Fund ($45,508)
The Peoples State Bank Scholarship Fund ($6,000)
The C. E. Ronneberg Fund ($850)
The George M. and Harriette McCann Roudebush Scholarship Fund ($23,636)
The Edson Rupp Memorial Fund ($175)
The George H. Shorney Scholarship Fund ($7,500)
The Franklin G. Smith Scholarship Fund ($26,000)
The Amanda Sperry Scholarship Fund ($1,000)
The Herbert F. Stilwell Scholarship Fund ($32,121)
The Chaplain Thomas B. Van Horne Memorial Scholarship Fund ($1,720)
The Daniel Van Voorhis Scholarship Fund ($500)
The Charles G. Waters Scholarship Fund ($17,495)
The Charles Gardner Waters and Clara Ferris Waters Scholarship Fund ($30,036)
The Earl F. and Irene L. Wells Fund ($1,878)
The Welsh Hills Prices Scholarship Fund ($2,000)
The Whisler Family Scholarship Fund ($30,000)
The Katherine Gear Wightman Scholarship Fund ($500)
The Russel H. Williams Memorial Scholarship Fund ($610)

FOR MEN
The Maria T. Barney Scholarship Fund ($11,000)
The A. F. and A. A. Bostwick Scholarship Fund ($1,000)
The Harry Thurston Crane Scholarship Fund ($5,000)
The David and Jane Harpster Fund ($5,000)
The Hawes Key Club Scholarship Fund ($2,921)
The John H. Hislop Memorial Scholarship Fund ($25,000)
The Eugenio Kincaid Leonard Scholarship Fund ($1,000)
The William E. Miller and Annie Scheidler Miller Memorial Scholarship Fund ($10,000)
The Mary Arnold Stevens Fund ($500)
The Robert Vanderveer, Jr., Memorial Scholarship Fund ($3,000)

FOR WOMEN
The Charles T. Chapin Scholarship Fund ($2,000)
The Harry Thurston Crane Scholarship Fund ($5,000)
The Ida Saunders Fisher Scholarship Fund ($2,000)
The Flora Price Jones Scholarship Fund ($1,000)
The J. W. King Scholarship Fund ($12,000)
The Hannah Snow Lewis Scholarship Fund ($16,000)
The Lide-Shepardson-Marsh Scholarship Fund ($1,000)
The Martha A. Luse Scholarship Fund ($1,000)
The James McClurg Scholarship Fund ($1,000)
The Mary Miller Scholarship Fund ($8,282)
The Mortar Board Scholarship Fund ($600)
The Philomathean Scholarship Fund ($1,000)
The Robinson Scholarship Fund ($2,500)
The Agnes Wilson Weaver Scholarship Fund ($1,000)

FOR PREMINISTERIAL STUDENTS

The Charles Edwin Barker Scholarship Fund ($1,000)
The William Howard Doane Scholarship Fund ($10,000)
The M. E. Gray Fund ($5,000)
The Abigail T. Houck Fund ($31,717)
The Joshua and Gwennie Jones Fund ($1,357)
The Mary K. Monroe Fund ($30,000)
The David Thatcher Fund ($1,500)

SCHOLARSHIP FUNDS INCREASED

Since the 1962-63 Catalog was published the following funds have been increased by the amounts indicated to June 1, 1963:
The American Baptist Convention Fund $25,222
The Frederick P. and Mary T. Beaver Fund 2,589
The Samuel B. Brierly Memorial Fund 200
The Denison Memorial Fund 1,295
The Masuo S. and Kiyo Hoshide Memorial Fund 70
The H. Rhodes Hundley Memorial Fund 500
The Emory W. Hunt Memorial Fund 250
The Peoples State Bank Fund 3,000
The C. E. Ronneberg Fund 65
The George M. and Harriett McCann Roudebush Fund 3,350
The Franklin G. Smith Fund 10,000
The Edward A. Wright Theatre Arts Fund 4,854
The Hawes Key Club Fund 100
The Francis Wayland Shepardson Fund 20
The Eliza Smart Shepardson Fund 200
The Willis A. and Frances W. Chamberlin Fund 248
Total Increases $51,963

NEW SCHOLARSHIP FUNDS ESTABLISHED

The Phi Beta Kappa Golden Anniversary Fund. This fund was established by a gift of $2,030 from Denison's Theta Chapter of Phi Beta Kappa as Golden Anniversary scholarships to outstanding students.

The Lelia Milward Firth Memorial Fund. This fund of $1,000 was established by Maude Firth Bawden in memory of her mother. The income is to be used to aid needy and deserving students.

The Morrow Pre-law Fund. This fund of $2,000 was established by E. Clark and Irma H. Morrow. The income from the fund is to be used preferentially for one or more scholarships for junior or senior students who are taking pre-law courses and intend to enter law school. Scholarships are to be granted on the basis of need to students who submit an essay on the subject, "My Philosophy of Law," prior to June 1.

The Russell H. Williams Memorial Fund. This fund of $610 was contributed by friends of Dr. Williams, the first director of Whisler Hospital. The income from the fund is to be used to aid needy and deserving students.

The Earl F. and Irene L. Wells Fund. This fund of $1,878 was established by gifts of Dr. Ronald V. Wells, President of Crozer Theological Seminary, in honor of his parents. The income is to be used to aid needy and deserving students.

The Robinson Fund. The income of this fund of $2,500 is to be used to aid needy and deserving women students.

The Blanche D. Beattie Scholarship Fund. The income from this fund of $18,570 is to be used to aid needy and deserving students.

Total of new Scholarship Funds $28,388.
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 LeGrand 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
The Hugh Glynn Price Memorial Fund

Denison University participates in the National Defense Student Loan Program under Title II of the National Defense Education Act of 1958 (Public Law 85-86.4).

Additional Sources. 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.
Academic Honors and Prizes

GRADUATION WITH HONORS

Graduation with Highest Honors. This highest distinction is accorded any student who earns a cumulative grade-point average of 3.7 for the last six semesters and receives an A grade on both his Honors Project and the Comprehensive Examination.

Graduation with High Honors. This second highest distinction is accorded any student whose cumulative grade-point average is 3.5 for the last six semesters and who earns an A grade on either his Honors Project or the Comprehensive Examination and at least a B grade on the other.

Graduation with Honors. This is the third distinction accorded any student whose cumulative grade-point average is 3.5 for the last six semesters and receives an A grade on the Comprehensive Examination, or who earns a cumulative grade-point average of 3.0 for the six semesters and at least a B grade on both the Comprehensive Examination and his Honors Project.
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 the Annual Honors Convocation.

HONORARY SOCIETIES

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

_The Phi Society._ This body originated at Denison University in 1926 when the Theta of Ohio chapter of Phi Beta Kappa formed the society as a means of giving recognition to high scholastic attainment by freshmen. To be considered for this honor early in his sophomore year a student must have earned at least 112 grade-points during the freshman year.

_National Honorary Societies._ Organizations with chapters of national honorary societies at Denison include Alpha Epsilon Delta, premedical; Crossed Keys, junior women’s service; Delta Phi Alpha, German language; Eta Sigma Phi, classical language; Kappa Delta Pi, educational; Mortar Board, senior women’s leadership; Omicron Delta Kappa, senior men’s leadership; Phi Alpha Theta, history; Pi Delta Epsilon, publications; Pi Delta Phi, French language; Pi Mu Epsilon, mathematics; Pi Sigma Alpha, political science; Psi Chi, psychology; Sigma Delta Pi, Spanish language; and Tau Kappa Alpha, forensic.

_Local Honorary Organizations._ Other groups represented at Denison, all local in nature, include the Air Honor Society, military; Alpha Rho Tau, art; Chemical Society; D Association, athletic; Dance Club, modern dance; Lambda Mu, women’s music; Mu Sigma, men’s music; Franco-Calliopean Society, creative writing; Rho Beta Chi, radio broadcasting; and Masquers and University Players, theatre honoraries.
ENDOWED 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 Crocker Public Speaking Award. The income from this fund established by a gift of $1,000 from Dr. Lionel G. Crocker is to be used for prizes in an annual contest in public speaking.

The Thomas Hamilton Crocker Award. The income from this fund ($1,000) provides an annual award to the student who excels in the oral interpretation of literature as a function of the department of speech. This award was established as a memorial to their son by Lionel G. Crocker, professor of speech at Denison University, and Mrs. Geraldine Hamilton Crocker, M.D.

The Ebaugh Award. The income from this fund ($457) provides for membership in the American Chemical Society and for a subscription to a chemical journal to be awarded to the outstanding senior majoring in chemistry. It was established in memory of William Clarence Ebaugh, chairman of the department of chemistry (1917-44).

The Sam Gelfer Memorial Music Award. The income from this fund ($2,438) is awarded annually to one or more students, irrespective of race, creed, or color, preferably to players of stringed instruments, providing they have demonstrated excellence in music and have contributed through their music to the University and the community. Selection is made by the music faculty of the University. The award was established by Licking County, Ohio, friends of Sam Gelfer and by gifts from former students.

The John L. Gilpatrick Mathematics Award. The income from this fund ($1,117) in memory of the head of the department of mathematics (1874-1912) provides an annual award to a member of the senior class recommended by the faculty of the department for excellence in that subject.
The Leland J. Gordon Alumni Prize in Economics. A prize of $100 is awarded annually to the student enrolled in Economics 414 who prepares the best original thesis dealing with a significant problem in economics. The papers are judged by persons outside of the department. Former students and friends of Professor Gordon, chairman of the department (1931-57), have contributed $1,870 to endow this prize.

The Louis Kussmaul Friendship Award. This annual award of $100 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 Granville Retail Merchants Association and the President of Denison University. This award was established by Harry W. Amos, Class of 1899, and is maintained by his bequest ($1,800).

The Annie Mary MacNeill Poetry Prizes. Prizes are awarded 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 to the junior or senior who ranks highest in the course devoted to the study of Victorian poets. They come from an endowed fund ($2,000).

The Conrad E. Ronneberg Award. The income from this fund ($786) is designed for the aid of foreign students at Denison whose need can not be cared for by help from other funds available at the University. The Alumnus who is establishing this fund was himself a student from another land.

The Daniel Shepardson Memorial Award. The income from this sum ($2,500) 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 Sperry and Hutchinson Economics Award. This award was established by a gift of $2,500 from the Sperry and Hutchinson Company in November, 1959. The income from the fund is used to provide an annual award for scholastic achievement by majors in the department of economics and is to be administered by the chairman of the department in consultation with his colleagues.
Academic Honors and Prizes

The Samson Talbot Bible Reading Contest. This endowed fund ($1,000) yields prizes of $25, $10, and $5 for the best reading of the Scriptures. The annual contest is open to seniors and juniors.

The Visual Arts Fund. The income from this fund ($312) donated by friends and members of the departmental faculty is to be used for grants to students or for special items needed by the Department of Visual Arts.

The Forbes B. Wiley Memorial Mathematics Award. An annual award provided by the income from this fund ($1,639) is given to a member of the sophomore class recommended by the department of mathematics for excellence in that subject. This fund has been established by friends and members of the family as a memorial to the chairman of the department (1913-50).

The C. L. Williams Memorial Award. This fund of $1,200 was established by Burt T. Hodges of the Class of 1920 in memory of Charles Luther Williams, professor of English (1894-1921). The income from the fund is used to aid students contributing, through active participation, to some phase of the religious program of the University or the community.

The Woodland Chemistry Prizes. A first and a 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 ($5,000) by his son, J. Ernest Woodland of the Class of 1891.

NON-ENDOWED PRIZES AND AWARDS

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 department of chemistry.
The David A. Chambers Biology Prize. This annual award of $200 goes to a member of the junior class on the basis of superior interest and excellence in the field of biology. This prize was established by a Cleveland physician, Charles E. Kinney, M.D., in honor of a Cleveland surgeon, David A. Chambers, M.D., Class of 1923. Selection of the recipient is made by the chairman of the department and two other members of the faculty named by the President of the University.

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, member of the Board of Trustees (1916-17), is now maintained by his son, David A. Chambers, M.D., Class of 1923.

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 at Denison University.

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 the local chapter of the German language honorary fraternity, Delta Phi Alpha.

The Freshman Chemistry Prize. A book prize is awarded annually by the Denison Chemical Society to the highest ranking freshman in Chemistry 116.

The Robert W. Levering Award. This annual award of $50 is made to the debater judged the best by the faculty of the department of speech. The award was established in 1959 by Robert W. Levering, Class of 1938, then a member of the Congress of the U.S.A.
Academic Honors and Prizes

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 the grandson, Melvin P. Lewis.

The Merck and Company Award in Chemistry. A copy of the Merck Index, a reference work covering biological and medicinal chemistry, is presented to the department of chemistry to be awarded to a student majoring in chemistry in recognition of excellent work and to encourage an interest in chemistry.

Distinguished Air Force ROTC Graduates. Cadets who, during Air Force ROTC training, have distinguished themselves academically, and have demonstrated outstanding qualities of leadership for service in the Air Force, will be designated Distinguished Air Force ROTC Cadet at graduation, and will, upon application and selection, be offered Regular Air Force Commission.

The Class of 1954 Scholastic Trophy (Military). This trophy is awarded to the graduating advanced AFROTC cadet with the highest overall cumulative 4-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.

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 student at the end of his sophomore year.

The Laura F. Platts Scholarship Award. This annual award of
$60 is made to a senior woman who gives unusual promise of service to mankind. Selection is based on her college record.

*The Psi Chi Book Prize*. A book prize is awarded to the senior in the department of psychology whose term paper is selected as outstanding by the faculty of the department. The award is made by the local chapter of the national honorary fraternity, Psi Chi.

*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 Judge Clyde S. Shumaker Trophy*. This trophy for excellence in public speaking has been established by Judge Clyde S. Shumaker of the Class of 1930. Selection of the recipient is made by the department of speech.

*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. They are awarded to the student making the best record in Beginning Spanish, and to the two students making the best record in Intermediate Spanish.

*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. In order to be eligible for this award the student must complete his senior year at Denison. The recipient must have been admitted to the first year of a Class A Medical School. The prize was established by Wynne Silbernagel, M.D., Class of 1926, and his mother, Mrs. O. C. Weist, in memory of Dr. Silbernagel's father.

*The William T. Utter Memorial Book Prize*. A book is awarded to the student whose research paper in the department of history is deemed the most worthy by the departmental faculty, who have contributed the prize in memory of William Thomas Utter, chairman of the department of history (1929-54).
## College Costs

### COST EACH SEMESTER

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<tr>
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<th>1963-64</th>
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<td>Tuition</td>
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<tr>
<td>Activity Fee</td>
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<td>Board</td>
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<td>Room</td>
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Each student on full tuition normally pays only 70 per cent of his actual educational expenses. Gifts from alumni, parents, and friends supplement endowment and other income to enable the University to meet this difference. How long Denison and similar colleges and universities seeking to provide an education of high quality can postpone additional charges for tuition is clearly dependent upon the increasingly generous support of alumni, parents of present students and other friends.

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 activity fee three months in advance, for board and room one month in advance of their effective date.
Tuition. The $600 tuition permits a student to take from 9 to 17 semester-hours of credit. An additional charge of $36.50* is made for each registered hour in excess of 17 hours. Any student desiring to take in excess of 17 semester-hours may petition the Committee on Academic Status for permission. A part-time student pays tuition at the rate of $36.50* for each semester-hour of credit.

Activity Fee. The $75 activity fee paid by degree candidates and certain special students includes various academic services such as library and laboratory facilities (except deposit for breakage). It also subsidizes the University health service, College Union, and intercollegiate athletic contests.

Health Service. This service includes hospitalization up to three days a semester (exclusive of medical and surgical costs such as X-ray, services of special nurses and consultants, doctor's 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 $10 a day is made. If hospitalization occurs and a claim is settled through a private insurance plan, an appropriate refund of the activity fee is made.

Other Services Covered by the Activity Fee. The activity fee also supports the Denison Campus Government Association and certain other student organizations. Its payment admits the student to plays, concerts, and lectures, and entitles the student to receive the campus weekly newspaper, the literary magazine, and the yearbook.

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

Room Rent. If two or more students room together, the rent for each student is $165 a semester. The price of a single room is $180 a semester. No room is rented for a shorter period than one

* $38 in 1964-65.
The cost of any damage to the furniture or the room beyond ordinary wear will be assessed to the occupant.

**Board.** Meals are served in the college dining halls throughout the academic year except during vacations. The charge for board is $245 a semester.

**Books and Supplies.** The cost of books and supplies is estimated at $50 a semester.

**CONSERVATORY OF MUSIC**

Conservatory of Music Fees are required of a student taking private lessons in Voice, Organ, Piano, Violin, Viola, Violoncello, Harp, Brass, and 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 $36.50* a semester. (If the private lessons raise the registration to an excess of 17 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 $60 a semester for one lesson a week and $110 for two lessons. If he takes courses other than private lessons, the student pays the part-time tuition fee of $36.50* a semester-hour of credit.

**PAYMENT OF BILLS**

All Bills are Payable in the Cashier'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 August 20 for the first semester and January 10 for the second semester but may be paid in advance. All other bills are due within 10 days from the date presented. Bills past due are subject to a service charge of $2. On request, a receipted bill is issued when the statement is returned.

A student is ineligible to attend classes unless his bills are paid when due. A student will be denied an honorable separation, an

* $38 in 1964-65.
official record of credits, or a diploma until all college bills are paid in full.

Deferral. Deferred payment of one-half of the net bill for the first semester is permitted until November 1, and for the second semester until April 1, provided the request is made to the Cashier on or before the due date.

As a convenience to parents of students, Denison makes available a monthly pre-payment plan which also provides insurance for continued payment of educational expenses in case of death or disability of the parent. Details of this plan are sent to the student as soon as he has been accepted for admission. Anyone wishing information in advance of this time should write to Insured Tuition Plan, 112 Water Street, Boston 9, Massachusetts.

REFUND OF DEPOSITS

Withdrawal from the University at any time is official only upon written notice to the appropriate Dean of Students. A request to the Registrar for a transcript of credits shall neither be considered a notice of withdrawal from the college nor a cancellation of a Room and/or Board reservation.

Cancellation of reservations or registration for the fall semester by a student enrolled at Denison during the previous spring semester must be made by women prior to May 1 and by men prior to May 15. Both the Registration Deposit of $25 and the Room Deposit of $25 are forfeited if the time limit is not observed. If a student does not preregister or indicate withdrawal by the cancellation date, both deposits shall be forfeited.

An entering student should see Fees and Deposits under Admission for regulations pertaining to Deposits.

Except in the case of withdrawal during the second semester which results in no refund of semester charges, a student withdrawing for any reason or dismissed from the University during the academic year shall forfeit his Registration Deposit, and a student moving out of a college residence hall during the academic year for any reason shall forfeit his Room Deposit.

The room deposit of a student who cancels his room reservation within the time limit indicated above will be credited to his
bill for the fall semester. In the case of a senior, or a withdrawing student entitled to a refund, room and/or registration deposits will normally be refunded in June.

REFUND OF TUITION, ACTIVITY FEE, ROOM AND BOARD

Withdrawal after the due date of semester bills but before Registration (or for the entering student the first day of Orientation Week): Except in cases of illness confirmed by a physician, the charges for withdrawal from the University or cancellation of a dining hall or residence hall reservation after August 20 for the fall semester or January 10 for the spring semester shall be 25 per cent of the semester tuition, 25 per cent of the semester board charge, and full semester rent for the residence hall room. (In case of illness there shall be no refund of deposits.) In no case shall the activity fee be refundable. These policies apply to both the returning and the entering student.

Withdrawal during a semester: After Registration (or for the entering student after the first day of Orientation Week): There shall be no refund of room rent or board charge, except in the case of a student withdrawing from the University because of illness. Such a student shall be charged 10 per cent of the semester room rent and board charge for each week or part thereof.

A student voluntarily withdrawing or dismissed for disciplinary reasons from the University during a semester will be charged 25 per cent of tuition (not to exceed the semester charge) for each week or part thereof enrolled (enrollment begins the first day of classes).

A student withdrawing from the University during a semester because of illness shall be charged 10 per cent of tuition (not to exceed the semester charge) for each week or part thereof enrolled. In no case shall there be a refund of the activity fee.

The excess hours fee, fees for applied music lessons, or other course fees shall not be refunded in the case of a student withdrawing for any reason from the University or from a course.
Physical Education Center  Gregory Pool (at left)

Air view of Middleton House and environs

Varsity swimmers at practice
Admission

Factors which bear upon the applicant's likelihood of success at Denison are carefully weighed by the Admissions Committee. It then makes its selections accordingly. An applicant may be admitted as either a freshman or a student 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. Although not compulsory, a personal interview is highly desirable.

Preliminary Application

An applicant desiring consideration at Denison should submit a preliminary application, which will be sent in response to his initial request for the Catalog or other information.

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, he is sent a formal application immediately.

Requirements for Admission

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

1. Graduation and College Certification. These must be furnished by an accredited high school or preparatory school showing at least 15 acceptable units of credit as follows:
   - 4 units of college preparatory English
   - 2 units of college preparatory Mathematics (3 units are highly recommended, especially for the applicant planning to major in Science)
   - 2 units in one Foreign Language
   - 1 unit of History
Denison University Bulletin

2 units of Science
4 remaining units (at least 2 units should be in the areas named above or in related subjects).

Exceptions. Exceptions to these requirements may be made by the admissions committee. Special consideration will be given to applicants planning to earn either the degree of Bachelor of Fine Arts or Bachelor of Music.

Entrance Examinations. The Scholastic Aptitude Test of the College Entrance Examination Board is required of all applicants. It may be taken in May of the junior year, in August between the junior and senior years, or in December, January or March of the senior year, preferably in December or January. If extenuating circumstances prevent the applicant from taking this test, he must make other arrangements with the Director of Admissions.

Recommendations by the secondary school principal, headmaster, or guidance officer (as prescribed in the formal application).

Recommendation by the clergyman or other religious leader (as prescribed in the formal application blank).

Personal Information including a listing of school, church, and community activities (as prescribed in the formal application).

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 Denison after the applicant has been accepted).

FEES AND DEPOSITS

An Applicant must pay fees and deposits as follows:

1. A nonreturnable fee of $10 to accompany the formal application.
2. A registration deposit of $25.
3. A room reservation deposit of $25 unless a veteran or man who is entering as a transfer student with the rank of at least a sophomore, or a local commuting student who does not desire residence hall accommodations.
These deposits are to be paid by the applicant accepted for admission to Denison on or before the College Entrance Examination Board Candidates' Reply Date about May 1. Both deposits are refundable until May 10 upon written notice of withdrawal of the application (addressed to the Office of Admissions).

An applicant from the waiting list, or a transfer student accepted after May 10, is allowed two weeks to make the payment of deposits.

ADVANCED PLACEMENT

This Program of the College Entrance Examination Board was developed to give recognition to the applicant who takes college-level courses in his secondary school. Thus he may be excused from certain college requirements by satisfactorily passing the Advanced Placement examinations in English Composition, Literature, Foreign Languages, American History, European History, Biology, Chemistry, Physics, and Mathematics.

Credit and Waiver will be issued to successful applicants earning a score of 4 or 5 on any of these examinations. Credit and/or waiver may be issued for a score of 3 upon recommendation of the Director of Testing and Vocational Services.

EARLY ACCEPTANCE OF FRESHMEN

A Freshman Applicant is generally admitted on the basis of grades for seven semesters of secondary school work, and the completion of the requirements listed above. Special consideration for acceptance on the basis of six semesters is given top-ranking applicants who take the May, August or December series of College Board Examinations (as described in the formal application blank). Otherwise, the Admissions Committee makes its initial selections by April 15 and establishes a waiting list from those applications which are then complete. Any openings occurring after that date are filled from the waiting list.

SPECIAL REQUIREMENTS FOR TRANSFERS

A Transfer Student eligible for advanced standing must meet
the requirements for a freshman and is expected to submit the following:

1. *Official Transcript* of his complete college record to date, showing honorable dismissal from the college previously attended.

2. *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. One who wishes to enter as a junior may be accepted provisionally during his sophomore year when his record of three semesters of college work is available. A student accepted for admission with *Advanced Standing* must complete at least four semesters in residence at Denison as a full-time student to be eligible for a Denison degree.

*Advanced Standing.* 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 66 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.

*Good Standing.* 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.
Registration

Registration, the formal enrollment in the college, is an agreement on the part of the student to abide by all college regulations.

Normal Registration. A normal load is set at 16 semester-hours of credit. To register for 17 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. This classification 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 credit-hours 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 a regular student may register for 9 to 11 credit-hours.

Mrs. Dew, Mrs. Poulton, Mr. Fitch, Mrs. Krause
Excess Registration. Upon petition to and approval by the Committee on Academic Status a student may take in excess of 17 credit-hours per semester.

Partial Registration. A regular student, with the permission of the appropriate Dean of Students, may take eight or fewer academic semester-hours of credit.

Special Registration. Persons living within commuting distance of the campus, certain foreign students who wish to take for credit or to audit certain courses of special interest but who are not degree candidates, and to certain graduates wishing to take postgraduate work special registration is open. A special student may not register for more than 6 credit-hours of academic work except by permission from the Committee on Academic Status. A special student desiring credit must submit appropriate credentials to the Office of Admissions.

Changes in Registration. A change is not ordinarily permitted. If made after Registration Day, a fee of $5 will be charged, unless waived by the Registrar for sufficient cause.

Withdrawal from Courses. To withdraw from a course a formal report must be signed by the student's adviser and presented to the Registrar. 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.)

Withdrawal from the University. A student who finds it necessary to leave Denison before the close of the semester must, in order to receive an honorable dismissal, report to the appropriate Dean of Students and arrange for an official withdrawal. Except in cases of illness and/or by permission of the Committee on Academic Status, grades of WP (with Fail penalty) or WF (with Fail penalty) will be entered on the permanent record of the student who withdraws from Denison after the date when midsemester grades are due.

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.
REGISTRATION PROCEDURE

A Student must complete his early registration and also final registration at the times scheduled to avoid payment of a fee for late compliance.

No student will be admitted to any class later than the second week of the semester.

Early Registration. All enrolled students prepare a detailed schedule of courses with the assistance of a departmental chairman or faculty counselor during a designated week in the preceding semester. Freshmen register early by mail in the summer preceding entrance to Denison.

Registration. On Registration Day a copy of the final detailed schedule of classes is deposited with the Registrar's Office providing payment of the prescribed fees has been made that day or earlier at the Cashier's Office.

Late Registration. Failure to complete registration at the time scheduled entails payment of a special fee of $10. Early registration not completed at time scheduled is subject to late fee of $10. The student who has not completed his early registration by January 10 in the first semester or by the deposit refund deadline in the second semester shall forfeit his deposit(s). (See COLLEGE COSTS.)

Transcript of Record. A first transcript of a student's record shall be issued free of charge. Additional copies will carry a charge of $2 each. Apply to Registrar's Office for copies of records.

CLASS RANK

Classification of students is determined by the amount of academic credit earned.

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 27 semester-hours of credit including required courses in English and in Physical Education.
Junior Standing—A student must have 62 semester-hours of credit.

Senior Standing. A student must have 97 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 are eligible to participate in intercollegiate athletics.

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. (This applies especially to summer school credits earned elsewhere.)

Grades Earned Elsewhere. 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 extension (in an officially designated extension center of an accredited college or university) are credited on the same basis as resident transfer credit (see above). Courses taken by correspondence are not accepted for credit at Denison. In exceptional cases a student may petition the Committee on Academic Status for consideration of credit for correspondence study.
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 Services.) The degree earned may be Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Music, or Bachelor of Fine Arts.

Degrees 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, Geology, Mathematics, Physics, or Psychology) may elect to receive the degree of Bachelor of Science. (For additional requirements for this degree see Departmental Courses: Major in Chemistry.) To obtain either of these degrees the student must satisfy certain conditions.

The Student Must Earn 124 semester-hours of credit including courses in General Education, the Field of Concentration, and Physical Education, plus credit for Convocation and Chapel, or its
equivalent. A student seeking certification to teach must also take certain required courses in Education.

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 satisfactory 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 a degree with Honors.

Detailed requirements in all of these areas are explained in the section below:

SPECIFIED REQUIREMENTS

Courses in General Education. These required courses (See General Education) must be completed by every candidate for a degree. These basic requirements will be adjusted for an upper-class 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. The student is enabled 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. A student may concentrate in any of the following fields: Area Studies (The Americas, France, and Germany—Transdepartmental), Astronomy, Biological Sciences (Botany and Zoology), Business (see Economics), Chemistry, Economics, Education, English (in Literature and in Writing), Geology, Government, History, Mathematics, Modern Languages (French, German, and Spanish), Music (see Bachelor of Music degree), Philosophy, Personnel Administration (see Psychology), Physical Education, Physics, Psychology, Religion, Social Studies (transdepartmental), Sociology, Speech, Theatre Arts, and Visual Arts.

A Candidate for the Bachelor of Science Degree. A student may concentrate in any of the following fields: Astronomy, Biological Sciences (Botany and 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 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 Requirement. Except those students who elect the AFROTC program, a student is required to earn one credit-hour in Physical Education in each semester in the freshman and sophomore years. 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. Both build up 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 no more than three absences from 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. Additional 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.

DEGREE OF BACHELOR OF FINE ARTS

A Student who satisfies the prescribed requirements will receive the degree of Bachelor of Fine Arts. The field of concentration shall be Theatre Arts or Visual Arts.

A candidate for the degree of Bachelor of Fine Arts must take a minimum of 36 semester-hours of General Education courses excluding General Education 31, 32, 32a, and 33 (see Forms of Fine Arts under Courses of Study). These courses must include General Education 11-12 and a laboratory science. Other General Education courses to be taken should be determined through consultation with the faculty adviser. If a student elects an 8-hour science course, 38 hours of General Education will be required. (See Courses in General Education.)
No less than 44 nor more than 50 semester-hours shall be acceptable in the major field. The remainder of the 132 semester-hours required for the degree shall consist of elective courses taken from the departmental and general education offerings (not more than 14 semester-hours of which may be in departments other than his own which share in the Bachelor of Fine Arts program), 4 hours of Physical Education, and Chapel and Convocation (see Specified Requirements).

**BACHELOR OF SCIENCE IN EDUCATION**

The student preparing for the Bachelor of Science in Education degree shall normally meet the same requirements as stated above for students who major in other departments. (See under **DEGREES 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 7 through 12 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 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 areas, 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 Student Teaching.

A student interested in teaching should consult the Department of Education as early as possible. Early planning will help 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:

(For required Physical Education see SCHOLASTIC REQUIREMENTS.)

With the exception of English and Materials of Music, 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.)

Field of Concentration. A student must earn 30 semester-hours of credit in Harmony, Advanced Musicianship, History of Music, and Form and Analysis. (See DEPARTMENT OF MUSIC.)

Major in Applied Music. This major requires in addition to Materials of Music (General Education 32a), English, Physical
Education, and the 30 semester-hours in the Field of Concentration, 10 semester-hours of Counterpoint, Composition, or additional music courses; 48 semester-hours of Applied Music (See MUSIC CURRICULUM); Electives in other academic subjects of 26 hours to complete the required total of 124 semester-hours plus Chapel or Convocation credits or their equivalent; and a Recital in the major field.

*Diploma in Applied Music.* This diploma 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.

*Major in Theory and Composition.* This major requires Music 115-116, 215-216, 201-202, 311-312, 331-332, 103-104, 203-204, 303-304, 305-306, 141-142, 151-152, 441-442, and 361-362; Applied Music, 16 hours; General Education courses 11-12, 21-22, 32a, and Language, 6 or 8 hours; Physical Education, 4 hours; Chapel and Convocation or their equivalent, 8 hours; with 24-26 hours of electives. In addition, the candidate will have three compositions ready for performance at the end of the junior year and will compose a work of major proportions (sonata, quartet, or cantata) during the senior year.

*Major in Music Education.* This major enables the candidate to undertake the regular undergraduate plan in preparation for public school music teaching. It extends through the four academic years and leads to both the Bachelor of Music (music education) degree and the Ohio Provisional Special Certificate (Music).

*Specified Requirements.* Music and Music Education (62 semester-hours): Music Education Methods (Education 315, 316 — 6 hours); Instrumental and Voice Classes (Music 141, 142, 151, 152, 161, and 162—6 hours); Music courses (Music 201-202, 303-304, 305, 306—10 hours); Music Theory (Music 115-116, 215-216, and 311-312—20 hours); Applied Music (2 hours each semester throughout the 4 years—16 hours); and Music Ensembles (Music 103, 104, 203, 204—4 hours). Education (15 semester-hours): Education 213, 217, 415-416, and 420. Liberal Arts and Electives (33 semester-hours): Required courses—General Education 11-12 (6 hours), General Education 32a (2 hours), General
Education 21-22 or Social Studies (6-8 hours), Science and/or Mathematics, General Education 56 must be taken as the prerequisite for Education 217; Literature and/or Language (6 hours); Fine and/or Applied Arts or Philosophy and/or Religion (6 hours). In addition to Physical Education (4 hours) and Chapel and Convocation credits or their equivalent, the student will elect courses to complete the required total of 124 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.*

**BACHELOR OF ARTS WITH MUSIC MAJOR**

*Required Courses.* The Bachelor of Arts degree with a Music major requires Music 115-116, 201-202, 215-216, 311-312; 10 semester-hours of credit in Applied Music; performance of a Graduating Recital or the composition of a work of major proportions such as a Sonata or String Quartet. A student may complete the requirements for the degree from other academic departments.

*Teaching Certification.* 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.)

**SCHOLASTIC REQUIREMENTS**

The Grade-Point System in force at Denison 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 *normally no 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 before midsemester, no courses are entered on his permanent record. (See Withdrawal from the University under Registration.)

*Academic Probation.* If a student's cumulative grade-point average is less than 2.0 at the end of any semester, he will be on academic probation. He will be continued on academic probation until his cumulative grade-point average is 2.0 or above.

*Junior Standing.* A sophomore on academic probation shall be admitted to the junior year only through petition to and favorable action by the Committee on Academic Status. (This refers to any student on probation at the end of his second year at Denison, whether or not he has sophomore standing as determined by credit-hours.) The Committee's usual policy is to demand evidence of acceptance of the student by a department willing to permit him to major in that field before favorable action on the petition is taken.

*Residence Requirement.* To be a candidate for a Denison degree a student who enters Denison as a freshman must complete six semesters at Denison, and a transfer student must complete the last two full years (or the last four semesters) at Denison. All students, except those in recognized pre-professional 3-2 programs, must complete the last two semesters at Denison. Exceptions will be made only by the Executive Committee.

*Special Student.* Registration as a special student is open to persons living within commuting distance of Granville, to certain
foreign students who wish to take or audit courses of special interest to them but are not interested in a degree, and to certain graduates wishing to take post-graduate work. A special student may not register for more than six hours of academic credit except by permission of the Committee on Academic Status. If academic credit is desired, appropriate credentials must be submitted to the Registrar.

**Academic Suspension.** A student failing to make a C average while on academic probation will be suspended. At the end of the first semester the student may petition the Committee on Academic Status for deferment of his suspension until June and request permission to enroll for the second semester. If his suspension is deferred by the Committee, the student must, during the second semester, reduce his point deficiency by one-half to be eligible for return in the fall. Any student who falls below a 1.0 grade-point average in any semester will be suspended.

**Eligibility for Re-enrollment.** A student on academic suspension who has shown marked improvement over his Denison record in work taken at some other accredited college or university or can present evidence of a maturing non-academic experience may petition the Committee on Academic Status for reinstatement, this petition to be submitted through the Office of the appropriate Dean of Students.

A former student, who was in good academic and social standing when he left the University, may be readmitted to Denison by writing to the appropriate Dean of Students and by repayment of the $25 registration deposit.

**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, must average at least 2.0.

**Graduate Record Examination.** As part of the series of nationally used achievement tests in General Education, every student is required to take the Graduate Record Examination in his 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.

*Comprehensive Examination.* This device is used to measure the ability of a student to correlate his knowledge effectively. During 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 THE SUPERIOR STUDENT

To ENCOURAGE A SUPERIOR STUDENT to make the most of his abilities, Denison offers a number of special opportunities.

*Advanced Placement.* A recently developed program to give recognition to the student who takes college-level courses in secondary school is Advanced Placement. Denison welcomes such a student who may be excused from certain college requirements by satisfactorily passing the Advanced Placement Examinations of the College Entrance Examination Board in any of the following: English Composition, Literature, Foreign Languages, American
History, European History, Biology, Chemistry, Physics, and Mathematics.

Credit will be given to a student who completes Advanced Placement Examinations with scores of 4 or 5. Credit may be given for a score of 3 upon recommendation of the Director of Testing and Vocational Services.

**Proficiency Examinations.** This device is regularly scheduled by the Office of Testing and Vocational Services at the beginning of each academic year at Denison. When a student demonstrates by examination his grasp of the subject matter of any course in General Education he will be excused from taking that course by the Director of Testing and Vocational Services.

**Directed Study.** A superior student is permitted to work intensively in areas of special interest under the Directed Study plan in the sophomore or junior year and to continue to do Individual Work for Honors in the senior year. A superior student is defined as one whose record during the three semesters preceding this 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, however, to recommend a student who has not met these requirements.

**Honors Project.** This privilege is open to any 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 Honors. (See Graduation with Honors under ACADMIC HONORS AND PRIZES.) A student wishing to undertake an honors project should make application to the Dean of the College.

**Junior and Senior Fellows.** Several departments of the college utilize the services of selected students who have demonstrated unusual capacity in their special field to assist the faculty in various aspects of the instructional program.
Plan of Study

These students are paid a modest annual stipend. Their selection is competitive. Junior fellows normally advance to senior status in their senior year with increased opportunities and responsibilities. The responsibilities of being a junior or senior fellow are especially valuable to students who expect to go on to graduate school in preparation for college teaching.

OFF-CAMPUS PROGRAMS

By petition to the Committee on Academic Status the superior student may qualify for one of the off-campus programs of study described in the following:

Washington Semester Plan. This program 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 inter-institutional contract those participating in this plan continue to pay their tuition and room rent at Denison. While in Washington they meet the 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.

Junior Year Abroad. This officially sponsored and supervised program by recognized American colleges and universities is open to any Denison student who meets certain requirements. He must have completed 60 semester-hours of academic work with an overall average of B. He must give evidence of adequate preparation in the foreign language needed, and be recommended by the appropriate Dean of Students and by the chairman of the department in which he is majoring at Denison. He must arrange a program of study which meets the approval of his major adviser. Finally, his
appointment must be approved by the Executive Committee of the Faculty. All information must be in the hands of the Committee by April 1.

A student interested in spending the year abroad should investigate carefully all of the other programs available in the country of his choice. If he plans to study independently, he should make a thorough investigation of the institution he wishes to attend.

All courses for which credit is to be given must be validated either by a transcript of credits, or by a certificate of satisfactory work, including the number of class hours and/or tutorial sessions attended. It is expected that students engaged in a program of independent study will take the course examinations at the university. Under the exceptional circumstances, for which approval is necessary, credit may be given by examination here. Thirty semester-hours a year will be the maximum for which Denison credit is given.

Upon his return to Denison the student must file with the Dean of the College and the chairman of his major department a report of his year abroad and his own evaluation of his educational experience in the foreign institution.

Any student who fails to comply with these procedures will be considered to have withdrawn voluntarily from the University. His return in a subsequent year will be dependent upon the availability of housing. In such a case, a request for transfer of credits from abroad will be considered by the Committee on Academic Status.

Merrill-Palmer School. This Detroit, Michigan, school offers an opportunity for a limited number of superior Denison students interested in work in the areas of human development and human
relations with particular emphasis on family life. The student should plan to take one semester in residence in Detroit during either the junior or senior year. Application should be made to the chairman of the department in which the student is majoring or to the Dean of the College.

*Student Exchange.* Arrangements for any Denison student, usually for one semester, are in effect with Hampton Institute, Howard University, and Fisk University. Students of high academic standing may apply for this program of intergroup relations which awards full credit toward a degree at Denison. The cost of a semester at one of these colleges involves little additional expense for the student other than travel. Application should be made to the adviser of the Intercollege Community Council of the Denison Campus Government Association.

**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 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.

*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.

Denison University is one of 37 liberal arts colleges in the University of Chicago Cooperative Program to recruit and prepare able students for careers as college teachers.

With Duke University 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.

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Plan of Study

With Colleges of Engineering. In order to facilitate the combination of liberal arts and engineering education and to give a student planning a career in engineering an opportunity to secure a broad basis for his specialized courses and thereby enhance his worth as an engineer and as a citizen, Rensselaer Polytechnic Institute has 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 the 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’s degree from Denison and a Bachelor of Engineering degree from R.P.I. 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.

With Licking County Hospital in Medical Technology. Denison University offers a program of medical technology in cooperation with Licking County Hospital’s School of Medical Technology, Newark, Ohio. A student in this program completes three years toward a major in biology at Denison University, followed by a 12-month training period in the Hospital. Upon successful completion of this training and certification by the Board of Registry of Medical Technologists under the auspices of the American Society of Clinical Pathologists the student may qualify for either the Bachelor of Science or Bachelor of Arts degree at Denison.

With Universities Offering Physical Therapy. Denison University offers a student majoring in biology the opportunity, after completing subject degree requirements in three years and passing the comprehensive examination at Denison, to qualify for a bachelor’s degree on successful completion of the first year’s requirements at Duke University, the University of North Carolina, and others. Permission for this arrangement should be made with the Dean of the College not later than the beginning of the junior year.

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Classroom Building in process — Front view (above), Rear view (below)

Modern language electronic laboratory is new facility
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 con-
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 pro-
vide the skills, understanding, and sense of values necessary for
intelligent living.

In a General Education course which extends through two semes-
ters, 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 R.O.T.C. trainees who complete the two-year basic pro-
gram will be permitted to meet the Physical Education require-
ment by earning two hours' credit only.

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

ORAL COMMUNICATION

These Courses in General Education train the student to
present ideas effectively from a public platform. A student may
choose either 10s or 10t. A student majoring in Speech may sub-
stitute a 3-hour introductory course in the department for 10s. A
student majoring in Theatre Arts may likewise substitute a 3-hour
introductory course in the department for 10t.

General Education 10s. Public Speaking
Chairman, Mr. Crocker
Introduction to the fields of speech activity: Interpretation, De-
bating, Public Speaking.

General Education 10t. Dramatic Interpretation
Chairman, Mr. Wright
Intensive work on voice and diction; dramatic interpretation of the
best literature in essays, narratives, drama, and poetry.
COMPOSITION

General Education 11-12. Introduction to Composition and Literature

Chairman (1963-66), Mr. Marshall

This General Education course offers practice in writing, mainly expository; training in the organization of ideas and in methods of research; and experience in analytical reading of major types of literature, ancient and modern. (To be taken in the freshman year, both semesters.)

BASIC PHILOSOPHIC AND RELIGIOUS IDEAS

General Education 18. Introduction to Philosophy and Religion

Chairman (1963-66), Mr. Macoskey

A study of the Hebrew-Christian tradition and selected philosophic texts. 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.)
HISTORY OF WESTERN CIVILIZATION

GENERAL EDUCATION 21-22. HISTORY OF WESTERN CIVILIZATION

CHAIRMAN (1963-66), MR. WATSON
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

CHAIRMAN, MR. WRIGHT
In this division a student may choose two of the three courses, 31, 32 or 32a, or 33. (To be taken in any year, any semester.)

GENERAL EDUCATION 31, FORMS OF VISUAL ARTS
Mr. King. 2
Visual Arts 205-206, History of Art, 3 hours each semester, or 121, Field Trip, may be substituted for this course.

GENERAL EDUCATION 32, FORMS OF MUSIC
Mr. Moore. 2
Music 201 and 202, History of Music, 3 hours each semester, may be substituted for this course.

GENERAL EDUCATION 32a, MATERIALS OF MUSIC
Mr. Osborne. 2
A course concerned with fundamental terminology, forms, and stylistic concepts of music. A more intensive course for music majors or for those with greater technical background. (Offered first semester only.)

GENERAL EDUCATION 33, FORMS OF THEATRE ARTS
Mr. Wright. 2
Theatre Arts 111, Introduction to the Theatre, 3 hours one semester, may be substituted for this course.
FORMS OF THINKING

**General Education 40a. Mathematics**

**Chairman (1963-66), Mr. Prentice**

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 Mathematics 121 or 211. (To be taken in the freshman or sophomore year or by consent of instructor.)

**General Education 40b. Logic**

**Chairman (1961-64), Mr. Bayley**

A study of the principles and problems involved in reaching conclusions. The course is divided into three areas, — the functions of language and the nature of meaning (semitotic), the structure of valid and invalid reasoning (syntactics or formal logic), and an analysis of factual inquiry (empirics). (To be taken in the freshman or sophomore year, either semester.)

*Dr. Bayley meets G.E. 40b class*
PRINCIPLES OF SCIENCE

To Acquire AN APPRECIATION of SCIENCE in our modern culture and in all lines of human thought, a student should take Physical Science (53-54) and the Life Science Sequence (Biology 55 and Psychology 56). If a student prefers, he may substitute an introductory physical science course with laboratory for Physical Science 53-54. Physical Science majors should elect substitutes. The Life Science Sequence in its two separate courses actually covers the basic first semester of General Biology (55) and General Psychology (56) so that no substitutes may be offered.

GENERAL EDUCATION 53-54, PHYSICAL SCIENCE

CHAIRMAN, MR. RONNEBERG

A course presenting the history and the philosophy of the physical sciences by an integrated presentation of selected topics which emphasize the fundamental principles of physics, chemistry, and astronomy. The laboratory work consists of a number of projects which bring out the methods of the physical sciences and give the student some experience with the scientific method. An emphasis is placed on the social and philosophical outcomes of modern science. Three lectures and one laboratory session each week. This course meets the physical science requirement for graduation.
GENERAL EDUCATION 55. BIOLOGY (I)  Staff. 3
CHAIRMAN (1963-66), MR. THORNBOROUGH
A General Education course which aims at developing, through the application of the scientific method to the various problems and demonstrations presented, a working understanding of the important principles and ideas of biology. Devoted principally to the human organism, the course is concerned with the physiology, behavior, reproduction, embryology, and genetics of the vertebrate animals. (To be taken in the freshman or sophomore year.)

GENERAL EDUCATION 56. GENERAL PSYCHOLOGY Staff. 3
CHAIRMAN (1963-66), MISS PAUL
A survey of topics in psychology, with emphasis on the scientific study of human and animal behavior. Based on background of general biology, the course includes the topics of motivation, learning, sensation and perception, personality, individual differences, and abnormal behavior. Lecture, laboratory, demonstration, and outside reading are integrated to study behavior ranging from conditioned reflexes to creative and social behavior. Prerequisite: General Education 55 (Biology I) or 51-52.
BASIC PHILOSOPHIC AND RELIGIOUS IDEAS
(cont. from G.E. 18)

GENERAL EDUCATION 81. BASIC PHILOSOPHIC AND RELIGIOUS IDEAS
Chairman (1963-66), Mr. Macoskey
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. (To be taken in the junior or senior year either semester.)

For this General Education course, a student may substitute one 3-credit course in Philosophy and one 3-credit course in Religion. Normally these would be Philosophy 303 and Religion 303, but any other combination which has the approval of the chairman and staff may be elected.
SOCIAL SCIENCE

UNDERSTANDING AMERICAN SOCIETY in a world perspective is the aim of this area of study. A student may meet this Social Science requirement in General Education by electing at least six semester-hours of credit from three departments, (preferably to be taken in the sophomore year).

Choice of two of three courses meets the requirement:

ECONOMICS 211. PRINCIPLES AND PROBLEMS 3

GOVERNMENT 211. AMERICAN NATIONAL GOVERNMENT 3

SOCIOLOGY 207. FOUNDATIONS OF SOCIAL LIFE 4

(For descriptions see the DEPARTMENTAL COURSES.)

LANGUAGE AND LITERATURE

FOREIGN LANGUAGE 6 or 8

A student who enters with two years of secondary school credit in a foreign language may satisfy this requirement by taking a 6-credit, second-year course (211-212) and passing the course examination. He should register for this course in his freshman year and not postpone it. The student who is beginning a new language will be required to take the 8-hour introductory course (111-112) and is advised to elect the second-year course in order to establish proficiency.

This requirement may be satisfied by proficiency tests which are regularly given at the opening of college each autumn and at the end of each semester. The degree of proficiency necessary may ordinarily be acquired by studying a language three or four years in secondary school or two years in college. A student with language training is encouraged to take a test for proficiency. Reasonable proficiency means, in the case of modern foreign languages, certain abilities, no matter how or when acquired: the ability to get the sense of what an educated native says when he is speaking simply on a general subject, the ability to use the common expressions
needed for getting around in the foreign country, speaking with a pronunciation readily understandable to a native, and the ability to grasp directly the meaning of simple, non-technical writing and to communicate its essence orally or in writing.

A student who presents for admission four years of Latin or Greek may request a special proficiency examination in classical languages.

**Literature in English or a Foreign Language**

*Literature in English.* A student who elects to meet this requirement may take any literature course for which he is eligible. He may not, however, count toward his requirement any of the writing courses or English 346.

*Literature in a Foreign Language.* A student may satisfy this literature requirement by taking a literature course in a foreign language at the 300-level.

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**SUMMARY OF COURSE REQUIREMENTS IN GENERAL EDUCATION**

*Required for Bachelor of Arts and Bachelor of Science Degrees*

**ORAL COMMUNICATION (choice of one)**

- G.E. 10s Public Speaking 2
  (May substitute 3-hour introductory Speech course)
- G.E. 10t Dramatic Interpretation 2
  (May substitute 3-hour introductory Theatre Arts course)

**COMPOSITION (No substitute and no waiver)**

- G.E. 11-12 Introduction to Composition and Literature 6

**PHILOSOPHY AND RELIGION**

- G.E. 18 Introduction to Philosophy and Religion (No substitute and no waiver) 3
- G.E. 81 Basic Philosophic and Religious Ideas 3
  (May substitute Philosophy 303 and Religion 303)
<table>
<thead>
<tr>
<th>Course of Study</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTORY OF WESTERN CIVILIZATION <em>(No substitute and no waiver)</em></td>
<td>8</td>
</tr>
<tr>
<td>G.E. 21-22 HISTORY OF WESTERN CIVILIZATION</td>
<td>8</td>
</tr>
<tr>
<td>FORMS OF FINE ARTS <em>(choice of two)</em></td>
<td>4</td>
</tr>
<tr>
<td>G.E. 31 VISUAL ARTS</td>
<td>2</td>
</tr>
<tr>
<td><em>(May substitute Visual Arts 205-206 or 121)</em></td>
<td></td>
</tr>
<tr>
<td>G.E. 32 or 32a MUSIC</td>
<td>2</td>
</tr>
<tr>
<td><em>(May substitute Music 201 and 202)</em></td>
<td></td>
</tr>
<tr>
<td>G.E. 33 THEATRE ARTS</td>
<td>2</td>
</tr>
<tr>
<td><em>(May substitute Theatre Arts 111)</em></td>
<td></td>
</tr>
<tr>
<td>FORMS OF THINKING <em>(choice of one)</em></td>
<td>4</td>
</tr>
<tr>
<td>G.E. 40a MATHEMATICS</td>
<td>4</td>
</tr>
<tr>
<td><em>(May substitute Mathematics 121 or 211)</em></td>
<td></td>
</tr>
<tr>
<td>G.E. 40b LOGIC</td>
<td>4</td>
</tr>
<tr>
<td>PRINCIPLES OF SCIENCE <em>(May waive 6 credit-hours)</em></td>
<td>12</td>
</tr>
<tr>
<td>G.E. 53-54 PHYSICAL SCIENCE</td>
<td>6</td>
</tr>
<tr>
<td><em>(Covers Astronomy, Chemistry, and Physics—Year course in any one of the three may be used as substitute)</em></td>
<td></td>
</tr>
<tr>
<td>G.E. 55,56 LIFE SCIENCE SEQUENCE</td>
<td>6</td>
</tr>
<tr>
<td>G.E. 55—General Biology (3 credits)</td>
<td></td>
</tr>
<tr>
<td>G.E. 56—General Psychology (3 credits)</td>
<td></td>
</tr>
<tr>
<td><em>(No substitutes)</em></td>
<td></td>
</tr>
<tr>
<td>SOCIAL SCIENCE <em>(choice of two from regular departments)</em></td>
<td>6 or 7</td>
</tr>
<tr>
<td>ECONOMICS 211</td>
<td>3</td>
</tr>
<tr>
<td>GOVERNMENT 211</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOLOGY 207</td>
<td>4</td>
</tr>
<tr>
<td>FOREIGN LANGUAGE</td>
<td>6 or 8</td>
</tr>
<tr>
<td>LITERATURE <em>(in English or a Foreign Language 300-level course)</em></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>57 or 60†</strong></td>
</tr>
</tbody>
</table>

† May waive up to 8 credit-hours upon written permission of the student's major adviser.
**Denison University Bulletin**

**Required for Bachelor of Fine Arts Degree**
For the Student majoring in Theatre Arts or Visual Arts

**G.E. 11-12 Introduction to Composition and Literature** 6

**G.E. 18 Introduction to Philosophy and Religion** 3

**G.E. 21-22 History of Western Civilization** 8

*For additional requirements see Departmental Courses—Theatre Arts and Visual Arts.*

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**Required for Bachelor of Music Degree**
For the Student majoring in any of the three areas:

**Applied Music**

**G.E. 11-12 Introduction to Composition and Literature** 6

(Electives may be drawn from G.E. courses)

**Music Education**

**G.E. 11-12 Introduction to Composition and Literature** 6

**G.E. 32a Materials of Music** 2

Foreign Language or Literature 6

Fine and/or Applied Arts or Philosophy and/or Religion 6

**G.E. 21-22 or Social Studies** 6-8

**Theory and Composition**

**G.E. 11-12 Introduction to Composition and Literature** 6

**G.E. 21-22 History of Western Civilization** 8

Foreign Language 6 or 8

*For additional requirements see Plan of Courses—Degrees in Music*

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_Miss Lects meets literature class on campus_
DEPARTMENTAL COURSES

Courses by Departments 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. Denison 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.
INTERDEPARTMENTAL COURSE

INTERDEPARTMENTAL 301. History of Science  Mr. Schagrin. 3
This course treats of the history of the major advances in the physical and biological sciences from ancient times to quantum theory with emphasis on the interdisciplinary aspects of the sciences and social development. Particular attention is devoted to those scientific discoveries which have resulted in the great conceptual schemes of science that have affected philosophy, theology, social and political theory, and have resulted in the continuous advances in the sciences. Prerequisite: Junior standing and completion of General Education Science requirements.

TRANSDEPARTMENTAL MAJORS

AREA STUDIES MAJOR: 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. Hirshler.

SOCIAL STUDIES MAJOR: 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.
Courses of Study

ASTRONOMY

Mr. Wheeler, Mr. Gamble

Chairman (1963-66), Mr. Wheeler (on leave 1963-64)

Acting Chairman (1963-64), Mr. Morgan

Astronomy 111 and 112 are intended primarily for the student who desires an elementary acquaintance with the physical universe. One who wishes 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 courses 111, 112, 113, 114, 211-212; Mathematics through Calculus; Physics 121-122 or 221-222, with 12 additional hours of Astronomy and Physics in 300 and 400 courses.

Astronomy 111. Descriptive Astronomy

Staff. 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. No previous training in Physics or College Mathematics is required.

Astronomy 112. Descriptive Astronomy

Staff. 3

The Galactic System—the sun as a star; distances, motions, luminosities, types and classes of stars, and their spectra; extra-

In Swasey Observatory
galactic systems, Cosmology. Prerequisite: 111 or consent of instructor.

**ASTRONOMY 113. LABORATORY ASTRONOMY**
Staff. 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.)

**ASTRONOMY 114. LABORATORY ASTRONOMY**
Staff. 1
Continuation of 113, paralleling 112. (Evening to be arranged.)

**ASTRONOMY 211-212. GENERAL ASTRONOMY**
Staff. 3
A secondary comprehensive course for majors in Astronomy and related sciences. Prerequisites: 111, 112 or consent of instructor.

**ASTRONOMY 215. STELLAR ASTRONOMY**
3
Prerequisites: 111, 112, and consent of instructor.

**ASTRONOMY 218. THEORY AND PRACTICE OF OBSERVATION**
Att.
Prerequisites: 113, 114, and consent of instructor.

**ASTRONOMY 361-362. DIRECTED STUDY**
Staff. 3

**ASTRONOMY 411. CELESTIAL MECHANICS**
3
Prerequisite: The Calculus.

**ASTRONOMY 414. ASTROPHYSICS**
3

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

**BIOLOGY**

Mr. Truman, Mr. Archibald, Mr. Norris, Mr. Alrutz, Mr. Haubrich, Mr. Thornborough

Chairman (1963-66), Mr. Alrutz

The Biology Curriculum includes prerequisite courses for professional training in medicine, dentistry, medical technology, nursing, and forestry. It supplies training for the teacher and the laboratory technician and provides a well-rounded basic preparation for professional training.
for graduate study and investigation in various areas of the field, as well as contributing to general cultural background. Although General Education 55 (Biology I) and Biology 150 (II) meet the minimum entrance requirement of medical schools, recommended or required by some are Biology 211 and 224. In addition, Biology 215, 222, 223, 225, and 234 are among the desirable electives for the premedical student.

Medical schools also require a medical admission test in the student's final undergraduate year. The testing fee of $10 is payable to the testing organization.

Major in Biology

A STUDENT MAJORING in Biology will elect a minimum of 26 semester-hours of credit in Biology including General Education 55 (Biology I) and 150 (Biology II) or their equivalent, and 401-402. One year of college chemistry is required.

Each student's 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. General Education 40a or an equivalent course in Mathematics is recommended in
preference to 40b (Logic). Introductory courses in Physics and Geology are likewise recommended.

Prerequisites for all advanced work in the department are General Education 55 (Biology I) and Biology 150 (II), which are the basic year course in General Biology, or their equivalent, unless waived by proficiency or advanced placement examination (See PRINCIPLES OF SCIENCE under Courses of Study).

Biology 115. General Botany: The Flowering Plant
Mr. Truman. 4
Application of fundamental biological principles in the structure, and activities of flowering plants, the recognition of the major groups, and the identification of common trees and weeds. Prerequisite: General Education 55 or its equivalent.

Biology 116. General Botany: The Plant Kingdom
Mr. Truman. 4
A phylogenetic survey including the morphology, reproduction, evolution, and economic importance of the major plant groups and the identification of spring wild flowers. Prerequisite: General Education 55 or its equivalent.

Biology 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.

Biology 150. General Biology (II)
Staff. 3
This course is a continuation of General Education 55 (Biology I) with the principal emphasis given to a more thorough study of the world of life, both plant and animal, from the evolutionary and ecological frame of reference. Prerequisite: General Education 55. (Offered each semester.)

Biology 151. Invertebrate Zoology
Mr. Thornborough. 4
A study of the morphology, physiology, life histories, and classification of the invertebrate animals (Protozoa through Protochordates). This course is designed to provide further knowledge of
Courses of Study

the invertebrates for not only the superior first year student but also upperclass Biology majors. Prerequisites: General Education 55 and Biology 150 or consent of instructor.

BIOLOGY 201. ANATOMY AND PHYSIOLOGY  Mr. Haubrich. 4
Human anatomy and physiology based upon a consideration of the cat. Certain other areas such as comparative physiology, behavior, aspects of cellular physiology, and physiology of activity are briefly considered in conjunction with the study of the human body. Prerequisite: General Education 55 or consent of instructor.

BIOLOGY 211. COMPARATIVE ANATOMY  Mr. Haubrich. 4
A comparative study of the anatomy and physiology of chordate animals with a close scrutiny of function and its possible relevance as an indicator of selective forces applied in the evolution of structures. Laboratory work is chiefly detailed dissection and study of certain protochordates, the lamprey, the shark, Necturus, and the cat. Prerequisites: General Education 55 and Biology 150 or consent of instructor.

BIOLOGY 213. FIELD ZOOLOGY  Mr. Alrutz. 3
The biology and identification of local organisms, emphasizing techniques of collection, preservation, preparation, and identification. Prerequisite: General Education 55 and Biology 150 or consent of instructor. (Offered first semester in 1964-65 and in alternate years.)

BIOLOGY 214. ECOLOGY  Mr. Alrutz. 3
An introduction to the fundamentals of Ecology. Class work is supported by frequent field trips and individual projects. Prerequisite: General Education 55 and Biology 150 or consent of instructor.

BIOLOGY 215. MICROBIOLOGY  Mr. Truman. 3
An introductory study of micro-organisms related to human welfare with laboratory emphasis on the bacteria including fundamental techniques of isolating, culturing, and staining. Two lectures, one scheduled 2-hour laboratory, and one unscheduled hour for reading results and recording data. Prerequisite: General Education 55.
Biology 216. General Bacteriology  
Mr. Truman, 4
An advanced course emphasizing the physiology of the bacteria, with laboratory techniques in identification, population control, enzymatic action, and serological relations. Two lectures and two 2-hour laboratories. Prerequisites: Biology 215, or 116 with consent of instructor, and one year of chemistry which may be taken concurrently.

Biology 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. Prerequisite: Biology 116. (Offered on demand.)

Biology 222. Parasitology  
Mr. Alrutz, 3
An introduction to the biology of animal parasitism with special consideration of those organisms affecting man. Lectures and associated visual aids emphasize the interrelatedness of human ecology and parasitic adaptations. Laboratory studies lead to an understanding of structure and facility in identification. Prerequisites: General Education 55 and Biology 150, or consent of instructor.

Biology 223. Histology  
Mr. Norris, 4
The minute anatomy of vertebrates, chiefly mammals, including the making of microscopic preparations. Prerequisites: General Education 55 and Biology 150.

Biology 224. Embryology (Developmental Anatomy)  
Mr. Archibald, 4
A course based on a laboratory study of the comparative development of the vertebrate body as illustrated by the lower chordates, the frog, chick, and pig. The lectures endeavor to present embryology as a single science in which the descriptive, morphological approach and the experimental, physiological approach are integrated, since both contribute to the understanding of the ontogenetic development of organisms. Prerequisites: General Education 55 and Biology 150, 211, or consent of instructor.

Biology 225. Genetics and Evolution  
Mr. Archibald, 4
A basic course dealing with the principles of heredity, their impor-
Courses of Study

tance in human life, and their bearing upon evolution. The relations of living organisms, the probable origin of existing species, and theories of organic evolution are studied. Prerequisites: General Education 55 and Biology 150 or consent of instructor.

Biology 227. Entomology
Mr. Alrutz. 3
Introductory study of insects, utilizing field and laboratory experiences. Prerequisites: General Education 55 and Biology 150 or consent of instructor. (Offered first semester in 1963-64 and in alternate years.)

Biology 232. Plant Physiology
Mr. Truman. 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: Biology 115. (Offered on demand.)

Biology 234. Cellular Physiology
Mr. Thornborough. 3
A study of function with emphasis upon the structure and biochemistry of the cell. The laboratory will include wide use of modern physiology techniques. Prerequisites: General Education 55 and Biology 150 and one year of chemistry.

Biology 236. Radiation Biology
Mr. Norris, 4
A study of radiation, its interaction with matter, and its application to biological systems. Concepts relative to unstable nuclei, units of measurement, detectors, and statistics of counting will be applied to tracer work of plant and animal processes and metabolic pathways. Prerequisites: General Education 55 and Biology 150; one year of chemistry, junior standing, or consent of instructor.

Biology 240. Plant and Animal Behavior
Mr. Haubrich. 4
An analysis of individual behavior patterns, patterns of group behavior and levels of complexity in both plants and animals with consideration of relations between population size, behavior, and physiology of individuals. Prerequisite: General Education 55 or 56 or consent of instructor.
Biology 361-362, Directed Study
Opportunities for the qualified student to extend his interest beyond the limits of course offerings.

Biology 401-402, Seminar
A consideration of the history of biology and contemporary research. Required of all majors.

Biology 461-462, Individual Work for Honors
Teaching of Science (See Education 311.)

Chemistry
Mr. Everhart (part-time), Mr. Spezzard, Mr. Collins, Mr. John B. Brown, Mr. Hoffman
Chairman (1961-64), Mr. Brown
Senior Fellow (1963-64), Robert G. Gaunder
Junior Fellows (1963-64), David F. Drake, Martha Gerwig, and Marilyn Preis

The Chemistry Department is among those on the list of colleges approved by the Committee on Professional Training of the American Chemical Society to offer a Certificate of Professional Training in Chemistry to the student who satisfies certain minimum requirements.

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 the fields of medicine, dentistry, medical technology, geology, physics, and engineering.

A student who plans to teach Chemistry in a secondary school is advised to consult with the chairman early in the freshman year regarding various possible combinations of Chemistry courses to meet teaching certificate requirements.

A deposit each semester for breakage and nonreturnable supplies is required for each laboratory course.
Courses of Study

Major in Chemistry

The Department Provides two curricula leading to the bachelor's degree: A Bachelor of Science program for the student wishing an intensive study of Chemistry and related sciences in preparation for a professional career or graduate work, and a Bachelor of Arts program for the student interested in medicine, secondary school teaching, or other fields requiring a good background in Chemistry. The B.A. degree does not preclude a professional scientific career, although an additional year of undergraduate study may be required for graduate degrees.

A student may graduate with a B.A. degree on fulfillment of general graduation requirements and completion of the following courses: 105, 116, 209, 226, 226b, 227, 227b, 341-342. A student electing to receive the B.S. degree must also complete 344, 317, and 331. A major who elects German for the language requirement and takes certain advanced courses will be certified to the American Chemical Society.

Chemistry 105. (I) Introduction to Chemical Principles

Staff. 4

A study of the basic principles underlying the science of chemistry: Atomic and molecular structure, periodicity of chemical properties, states of matter, and selected examples of chemical reactions. Three class periods and one laboratory period a week.

Chemistry 106. Chemistry in Modern Life

Staff. 4

A terminal semester of general chemistry presenting a well-rounded view of the field of chemistry and its application to modern life. Three class periods and one laboratory period a week. Prerequisite: 105.

Chemistry 116. (II) Introduction to Inorganic Chemistry

Staff. 4

A study of inorganic reaction chemistry with emphasis on correlation of this material with generalizations, periodic relationships, and theory. Laboratory work includes synthetic inorganic chemistry and methods of separation of ions in aqueous solution. Three class periods and two laboratory periods a week. Prerequisite: 105.
CHEMISTRY 209. (III) INTRODUCTION TO QUANTITATIVE TECHNIQUES
Mr. Hoffman. 4
A consideration of the equilibrium situation represented by ionic reactions in aqueous solution. Treatment includes precipitation, neutralization, oxidation-reduction, and complex ion reactions. Laboratory work emphasizes simple techniques of quantitative measurement applied to the determination of percentage composition, equilibrium constants, and to reliability of data. Two lectures and two laboratory periods a week. Prerequisite: 116; concurrent registration in Mathematics 121.

CHEMISTRY 226-227. (IV AND V) ORGANIC CHEMISTRY
Mr. Spessard. 4
The chemistry of aliphatic, aromatic, and heterocyclic compounds of carbon. Three lectures and one laboratory period a week. Prerequisite: 209.

CHEMISTRY 226b-227b. ORGANIC CHEMISTRY LABORATORY
Mr. Spessard. 1
Required of all chemistry majors; to be taken concurrently with 226-227. One laboratory period a week.

CHEMISTRY 317. INTERMEDIATE INORGANIC CHEMISTRY
Theoretical and descriptive inorganic chemistry, stressing bonding theory, periodic relationships, coordination chemistry, and reaction chemistry. The laboratory attempts to awaken synthetic talents by stressing correlation of theoretical principles and laboratory techniques. Two lectures and one laboratory period a week. Prerequisites: 227 and 342 (may be taken concurrently).

CHEMISTRY 331. ANALYTICAL CHEMISTRY
Mr. Hoffman. 4
A discussion of the theoretical background of selected topics in the
areas of absorption spectroscopy, electrochemistry, and phase change or partition processes. Laboratory work includes a practical introduction to spectrophotometry, polarography, and chromatography. Two lectures and two laboratory periods a week. Prerequisite: 342 or taken concurrently.

CHEMISTRY 341-342. PHYSICAL CHEMISTRY  Mr. Brown. 3
A study of the description of and prediction of the characteristics of chemical systems and their interactions with respect to transfer of mass and energy. Laboratory course 344 should be taken concurrently with 342. Three class periods a week. Prerequisites: 209; Physics 222 or 122, and The Calculus. A non-major is accepted on recommendation of his adviser.

CHEMISTRY 344. PHYSICAL CHEMISTRY LABORATORY  Mr. Brown. 2
Quantitative measurements on physical-chemical systems. Experiments are selected to illustrate the theories discussed in 341-342. Two laboratory periods a week. To be taken concurrently with 342.

CHEMISTRY 350-450. READING COURSE AND SEMINAR  Staff. 1
Designed to familiarize the student with the chemical literature and to integrate the student's work in the various areas of chemistry. One session a week during both the second semester of the junior year and the first semester of the senior year.

CHEMISTRY 361-362. DIRECTED STUDY  Staff. 3
Offered to juniors and seniors. Prerequisite: 227 or 342 or consent of instructor.

CHEMISTRY 415. QUALITATIVE ORGANIC ANALYSIS  Mr. Spessard. 3
Methods. One lecture and two laboratory periods a week. Prerequisite: 227.

CHEMISTRY 421. INTERMEDIATE ORGANIC CHEMISTRY  Mr. Spessard. 3
A study of certain theoretical aspects of organic chemistry and specially selected topics dealing with some of the more complex
compounds of the aliphatic, aromatic, and heterocyclic series, including compounds of biological significance. The laboratory work involves the separation of mixtures, preparation of compounds, and quantitative methods for characterizing organic compounds utilizing special techniques not covered in the elementary organic course. Library sources are used extensively. Two lectures and one laboratory period a week. Prerequisite: 227.

CHEMISTRY 361-462. INDIVIDUAL WORK FOR HONORS Staff. 3

TEACHING OF SCIENCE (See Education 311.)

CLASSICAL LANGUAGES

CHAIRMAN, MR. L. R. DEAN (PART-TIME)

Courses in Classical Civilization

These courses do not require the use or study of Greek or Latin languages. A student desiring any course should consult the chairman.

GREEK 101. GREEK CIVILIZATION
Topical study of the chief aspects of ancient Greek life and thought. May be included in a History major. (Not offered in 1963-64.)

LATIN 104. ROMAN CIVILIZATION
Structure of Roman customs and institutions as a legacy to the modern world. (Not offered in 1963-64.)

GREEK 201. GREEK DRAMA
Fifteen tragedies and comedies are read and discussed. Alternates with 203. (Not offered in 1963-64.)

GREEK 203. GREEK LITERATURE IN ENGLISH
Cross-section of the varied forms of literary expression, exclusive of drama. Alternates with 201. (Not offered in 1963-64.)

GREEK 204. MYTHOLOGY-RELIGION
A survey of the principal myths and a study of their use in European and American literature and art. (Not offered in 1963-64.)
Courses of Study

LATIN 206. LATIN LITERATURE IN ENGLISH 2
Selections from the leading writers. Alternates with Greek 204.
(Not offered in 1963-64.)

Courses in Language
Any of the following courses will be given if demand warrants.

GREEK 111-112. BEGINNING GREEK 3
Forms, grammar, and elementary reading. Open to students of all classes.

GREEK 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 on demand.)

LATIN 102. VIRGIL 3
Selections from the first six books of the Aeneid. Prerequisite: Three years of high school Latin. (Offered on demand.)

LATIN 211-212. SELECTIONS FROM LATIN LITERATURE 3
Principally comedies, lyric, elegiac, and satiric poetry. Prerequisite: Four years of high school Latin.

LATIN 311. CICERO AND OVID 3
History and mythology. Sight reading. Prerequisite: 111-112. (Offered in 1963-64.)

LATIN 312. PLINY AND TACITUS 3
Letters and essays. Prerequisite: 211. (Offered in 1963-64.)

LATIN 411-412. VIRGIL 3
A study of all the poems of Virgil. (Not offered in 1963-64.)

TEACHING OF LATIN (See Education 333.)
ECONOMICS

MR. LEHMAN, MR. CHIANG, MR. WESTBROOK, MR. CHAO, MR. PEASE, MR. GREEN, MR. R. W. KING

CHAIRMAN (1961-64), MR. CHIANG (on leave 1963-64)

ACTING CHAIRMAN (1963-64), MR. LEHMAN

A STUDENT IN ECONOMICS may choose either a major in Economics or a major in Business.

Major in Economics

A STUDENT MAJORING IN ECONOMICS is required to take 211-212, and should take additional courses in the department, with emphasis in the Economics area, for a total of 30-36 semester-hours (not counting 211). For a broader background in the Social Science field, he is required to take Government 211 and Sociology 207. The majoring student must also fulfill the following departmental requirements: History 222; two courses from Mathematics 108, 205-206 (if Mathematics 121 is taken, Mathematics 108 will be waived); and two of these related courses: Geography 225, 226; Government 212, 311; History 321; Mathematics 206 (acceptable as a related course only if it has not been counted toward the Mathematics requirement above); Philosophy 326; Sociology 208.

A student who contemplates graduate study in Economics is urged to elect a modern foreign language, and to take Mathematics 121-122.
Major in Business

A Student Majoring in Business is required to take 211-212, and should take additional courses in the department, with emphasis in the Business area, for a total of 30-36 semester-hours (not counting 211). For a broader background in the Social Science field, he is required to take Government 211 and Sociology 207.

The majoring student must also fulfill the following departmental requirements: History 222; two courses from Mathematics 108, 205-206 (if Mathematics 121 is taken, Mathematics 108 will be waived); and two of these related courses: Government 231-232; Mathematics 206 (acceptable as a related course only if it has not been counted toward the Mathematics requirement above); Philosophy 326; Psychology 320, 417; Sociology 415.

A student who contemplates graduate study in Business is advised to complete the full year of Mathematics 205-206.

Economics 211-212. Principles and Problems 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.

Economics 223-224. Accounting Survey Mr. Chao. 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, consolidated statements, and analysis of financial statements.

Economics 311. History of Economic Thought Mr. Westbrook. 3
The development of significant economic doctrines, their content and methodology, their application and influence, and their relation to the main stream of current economic thought. Prerequisite: 211-212.

Economics 312. Comparative Economic Systems Mr. Westbrook. 3
A study of alternate economic systems as conceived by theoreticians
and a comparative study of economic systems as they exist in reality. The course emphasizes the development and current performance of the economic systems of the United States, England, and the Soviet Union. Prerequisite: 211-212 or consent of instructor.

ECONOMICS 313. PUBLIC POLICIES TOWARD BUSINESS 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.

ECONOMICS 314. MARKETING, PUBLIC POLICY, AND PRICES 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.

ECONOMICS 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.

ECONOMICS 316. CORPORATE ORGANIZATION AND FINANCE Mr. Pease 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.

ECONOMICS 317. LABOR-MANAGEMENT RELATIONS Mr. Westbrook 3
Management and unions in the United States economy; power bargaining and the strike; public policy toward unions. Prerequisite: 211-212 or consent of instructor.
Courses of Study

**ECONOMICS 318. LABOR ECONOMICS**
Mr. Westbrook. 3
Theories of wage determination; wages and prices; unemployment; economics of security. Prerequisite: 317 or consent of instructor.

**ECONOMICS 332. ECONOMICS FOR CONSUMERS**
Mr. Pease. 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.

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

**ECONOMICS 410. PUBLIC FINANCE**
Mr. Lehman. 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.

**ECONOMICS 413. READINGS IN ECONOMIC JOURNALS**
Staff. 3
Based on readings in current economic journals. Consent of instructor.

**ECONOMICS 414. SENIOR RESEARCH SEMINAR**
Staff. 3
Introduction to principles and methods of research. Each student will write an original paper. Consent of instructor.

**ECONOMICS 419. PRINCIPLES OF INSURANCE**
Mr. Pease. 3
Survey of property, casualty, liability, social insurance, and life insurance, with special emphasis on the basic concepts and principles of protection of business firms. Open to all seniors.

**ECONOMICS 421-422. ADVANCED ECONOMIC ANALYSIS**
Mr. Chiang, Mr. Green, Mr. King. 3
Application of the tools of economic analysis to problems of production, pricing, distribution, income, and employment. Prerequisite: 211-212.
Economics 421. 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 or consent of instructor. (It is highly desirable that a student registering for this course shall also have had 223-224.)

Economics 425. Fluctuations in the Level of Prices, Income, and Employment
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.

Economics 431. International Trade and Finance
Mr. Chiang, Mr. King. 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.

Economics 432. Economic Development
Mr. Chao. 3
A survey of the structure and problems of the underdeveloped economies, with particular emphasis on the major determinants of economic growth. Prerequisite: 211-212.

Economics 440. Washington Field Trip
Mr. Lehman. 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.

Economics 452. Seminar in Mathematical Economics
Mr. Chiang. 3
Application of differential calculus and other mathematical methods to economic analysis. Consent of instructor.

Economics 461-462. Individual Work for Honors
Staff. 3
Teaching of Social Studies (See Education 320.)
EDUCATION

MR. CARTER, MR. HOLTON

CHAIRMAN (1962-65), MR. CARTER

Teacher Preparation

DENISON UNIVERSITY is accredited by the State Department of Education in Ohio in the teacher-preparation field of secondary education, including junior and senior high schools. A Special Certificate in Music (See MUSIC CURRICULUM) may be obtained on completion of the required courses of this curriculum.

A student registering for courses in Education may be expected to demonstrate at least mean performance on a nationally standardized achievement test, demonstrate competence in oral and written English, and in handwriting and vocabulary. The student may 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 student-teaching must meet the requirements for teacher certificates 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.

Student-teaching assignments are made in the various schools in Granville, Newark, and Licking County. These assignments are made by the Department of Education but responsibility for transportation to the school rests with the student.
A STUDENT MAJORING IN EDUCATION may qualify for the Bachelor of Arts or the Bachelor of Science in Education degree.

The requirements for the Bachelor of Arts degree include 24 semester-hours of courses in Education, including General Psychology (General Education 56).

The requirements for the Bachelor of Science in Education degree include 27 semester-hours of courses in Education plus General Psychology.

EDUCATION 213. SECONDARY SCHOOL CURRICULUM.  
Mr. Carter.  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.

EDUCATION 215. HISTORY OF EDUCATION  
This course places some emphasis upon education in the United States.

EDUCATION 217. CHILD AND ADOLESCENT DEVELOPMENT  
Mr. Carter.  3
Psychological development especially during early periods of growth. (Listed also as PSYCHOLOGY 217.) Prerequisite: General Education 56.

EDUCATION 311. TEACHING OF SCIENCE  
Mr. Truman.  3
Prerequisite: 217. (Offered in 1963-64 and in alternate years.)

EDUCATION 315. METHODS OF MUSIC FOR ELEMENTARY SCHOOLS  
Mr. Hunter.  3
The psychology and problems of teaching public school music applied to present day practices. Alternates with 316. Prerequisite: 217. (Offered in 1964-65 and in alternate years.)

EDUCATION 316. METHODS OF TEACHING MUSIC IN HIGH SCHOOL  
Mr. Hunter.  3
Alternates with 315. Prerequisite: 217. (Offered in 1964-65 and in alternate years.)
Courses of Study

Education 318. Educational Sociology  Mr. Valdes. 2
(Listed as Sociology 318.) Prerequisite: 217 or Sociology 207 or its equivalent.

Education 320. Teaching of Social Studies  Mr. Valdes. 3
Prerequisite: 217. (Offered first semester each year.)

Education 325. Evaluation of Teaching 3
Construction and use of tests; selection of standard tests; and interpretation of test results.

Education 326. Teaching of General Methods in High School 3
Prerequisite: 217.

Education 331. Teaching of English Miss Lewis. 3
Prerequisite: 217. (Offered first semester every year.)

Education 333. Teaching of Latin Mr. L. R. Dean. 2-3
Prerequisite: 217. (Offered only on demand.)

Education 335. Teaching of Mathematics Mr. Sterrett. 3
Prerequisites: 217 and Mathematics 122. (Offered in 1963-64 and in alternate years.)

Education 339. Teaching of Speech Mr. Hall. 2
History of rhetorical thought, psychology of language, phonetics, the shaping of speech curriculum. Prerequisite: 217.

Education 341. Teaching of Public School Art 3
Prerequisite: 217. (Offered second semester in 1963-64 and in alternate years.)

Education 343. Teaching of Modern Languages Mr. F. L. Preston. 3
Prerequisite: 217. (Offered in 1964-65 and in alternate years.)

Education 345-346. Special Problems Staff. 2-3
Independent work on selected topics under the guidance of staff members. Consent of chairman.
Denison University Bulletin

Education 352. Physical Education for Elementary and High School Programs  Miss Shepard. 4
Principles, curriculum, methods and materials, tests and measurements for the elementary and secondary school programs. Prerequisite: 217.

Education 354. Methods in Recreational Dance  Miss Van Horn. 2
Prerequisite: 217.

Education 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 of the subject(s) in which student expects to teach; consent of the staff of the Department of Education; and, acceptance by the school officials at the school in which the student teaching is to take place.

Education 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.

Education 420. Philosophy of Education  Mr. Macoskey. 3
An inquiry into the philosophical issues associated with education including such problems as The School in Relation to Society and The Aims and Values of Education. The educational philosophies of pragmatism, realism, idealism, and existentialism are critically evaluated. (Listed also as Philosophy 420.)

Education 445. School Health Education  Mr. Seils. 3
Principles, organization and administration, methods, materials, techniques as well as tests and measurements in school health education. Prerequisite: 217.

Education 461-462. Individual Work for Honors  Staff. 3
ENGLISH

Mr. Downs, Mr. Bennett, Miss Lewis, Mr. Mahood, Miss Shannon, Mr. Marshall, Mr. M. E. Brown, Mr. Consolo, Mr. Kraft, Mr. Miller, Mr. Burkett

Chairman (1963-66), Mr. Downs

Added to the Departmental staff for varying periods of residence each year will be an established writer, who will occupy the endowed Harriet Ewers Beck Chair of English.

Major in English

General Requirements. A student majoring in English must elect a minimum of 26 semester-hours of credit in English, including 430, and must have two college years or its equivalent of one modern foreign language. General Education 11-12 does not count as credit toward a major.

A student who expects to have English as a field for teaching in secondary schools should include in his courses for certification: 230, 237, 346, and at least one semester of 211-212 or its equivalent in advanced elective courses in English Literature.

Special Requirements. For a Major in Literature add 215 to the General Requirements above. For a Major in Writing a minimum of 12 semester-hours of composition must be added to the General Requirements. Included must be either 407-408, 361-362, or 461-462.

ENGLISH 211-212. ENGLISH LITERATURE Staff. 3
A study of major works in English Literature from the beginning to the late 18th Century (first semester); from the 18th Century to the 20th Century (second semester).

ENGLISH 215. SHAKESPEARE Miss Lewis. 3
A study of the principal plays. Required of English majors. (Offered each semester.)
ENGLISH 217. NEWSWRITING AND EDITING
Mr. Bennett. 2
Extensive practice in newswriting and analysis of newspaper techniques. (May be taken for academic credit twice for a maximum of four hours but does not count toward the Literature requirement for General Education.)

ENGLISH 218. THE BIBLE AS LITERATURE

ENGLISH 221. MODERN AMERICAN AND BRITISH LITERATURE
Staff. 3
A study of the literature since 1900.

ENGLISH 230. AMERICAN LITERATURE
Staff. 3
A study focusing primarily on writers of the 19th Century.

ENGLISH 237. ADVANCED COMPOSITION
Staff. 3
Theory and practice in writing expository and narrative prose and lyric poetry.

ENGLISH 257. NARRATIVE WRITING
Mr. Bennett. 3
(Offered second semester in 1963-64.)

ENGLISH 267. ESSAY AND ARTICLE WRITING
Mr. Bennett. 3
(Offered second semester in 1964-65.)

ENGLISH 277. POETRY WRITING
3
(Offered first semester in 1963-64.)
ENGLISH 310. STUDIES IN LITERATURE  Staff. 3
An intensive study of selected writers or works. May be taken more than once for credit.

ENGLISH 323. MILTON AND THE 17TH CENTURY  Miss Lewis. 3
A study of such representative writers as Donne, Herrick, Herbert, or Marvell, followed by a careful reading of Milton's shorter poems and Paradise Lost. (Offered second semester in 1963-64.)

ENGLISH 324. THE ROMANTIC MOVEMENT IN ENGLAND  Miss Shannon. 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 in 1964-65)

ENGLISH 329. THE ELIZABETHAN DRAMA  3
A study of the drama in England from 1580 to 1642 (exclusive of Shakespeare), with emphasis upon the works of Marlowe and Jonson.

ENGLISH 330. THE MODERN DRAMA  Miss Shannon. 3
A study of drama from Ibsen to the present, with emphasis upon the works of British and American playwrights.

ENGLISH 331. NON-DRAMATIC LITERATURE OF THE 16TH CENTURY  Mr. Brown. 3
An introduction to English prose and poetry, both lyric and narrative. (Offered first semester in 1963-64.)

ENGLISH 332. CHAUCER AND MIDDLE ENGLISH LITERATURE  Mr. Brown. 3
The central concerns of the course, Troilus and Criseyde and The Canterbury Tales, are considered in relation to other literature in the period. (Offered second semester in 1964-65.)

ENGLISH 335. VICTORIAN PROSE AND POETRY  Mr. Marshall. 3
A study of Tennyson, Browning, Arnold, and two or three of this group: Clough, FitzGerald, the Rossettis, Morris, Meredith, Swinburne, Carlyle, and Ruskin. (Offered second semester in 1963-64.)
ENGLISH 339. The Age of Wit and Satire 3
The skeptical and critical mind of the Restoration and 18th Century as reflected in poetry, comic drama, and prose. Emphasis on Dryden, Swift, and Pope.

ENGLISH 341. The English Novel Mr. Mahood. 2-3
The development of the novel during the 18th and 19th centuries. Additional outside reading for three credits.

ENGLISH 342. English and American Novel—1870 to the Present Mr. Mahood. 2-3
Additional outside reading for three credits.

ENGLISH 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.

ENGLISH 346. The English Language Mr. Burkett. 3
A study of the language and its development. (Offered second semester in 1963-64.)

ENGLISH 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 in 1963-64.)

ENGLISH 350. Contemporary Literature Mr. Downs. 2-3
A seminar in 20th Century American, English, and (in translation) European Literature. Additional outside reading for three credits. (Offered first semester in 1963-64.)

ENGLISH 361-362. Directed Study Staff. 3

ENGLISH 373. The American Literary Renaissance Mr. Consolo. 3
A seminar dealing with authors to be chosen from Poe, Emerson, Thoreau, Hawthorne, Melville, and Whitman.
Courses of Study

ENGLISH 375. THE BEGINNINGS OF AMERICAN REALISM AND NATURALISM  
Mr. Kraft.  3
A seminar dealing with authors to be chosen from Howells, Twain, James, Norris, Crane, and Dreiser.

ENGLISH 407-408. SEMINAR IN WRITING  
Mr. Bennett.  3

ENGLISH 410. LITERARY CRITICISM  
Mr. Marshall.  3
The theory of literature, its criticism and scholarship, studied in relation to widely known poems, plays, and novels. (Offered second semester in 1964-65 and in alternate years.)

ENGLISH 415. SHAKESPEARE STUDIES  
Mr. Downs.  3
A seminar for juniors and seniors, dealing intensively with selected Shakespearean plays and focusing on certain aspects of the dramatist’s work. Prerequisite: 215.

ENGLISH 430. PROBLEMS IN LITERATURE  
Mr. Brown, Mr. Consolo, Mr. Marshall.  3
An intensive course which concentrates on representative literary types selected from the major periods of English Literature. Entails independent research. Required of all senior English majors. (Offered first semester.)

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

TEACHING OF ENGLISH (See EDUCATION 331.)

GEOLOGY AND GEOGRAPHY

MR. MAHARD, MR. GRAHAM

CHAIRMAN (1961-64), MR. GRAHAM

Major in Geology

A student majoring in Geology is expected to take four years (eight courses) in geology plus Geology 400, and Geography 225 and 226. In addition, a minimum of 24 semester-hours is required.
in Mathematics, Chemistry, Physics, Biology, and Engineering Science.

**Geology 111. Earth Science (I)**  
Mr. Mahard, Mr. Graham. 4

A study of the earth, sun, moon relationships; latitude and longitude; time and tides. Phenomena of the atmosphere and oceans leading to consideration of weather and climate. Laboratory.

**Geology 112. Earth Science (II)**  
Rocks and minerals; modification of the earth’s crust; weathering and agencies of erosion; water and soil; methods of historical geology. Laboratory and field work. (Offered in spring semester.)

**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. Prerequisite: 111-112.

**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. Prerequisite: 211.

**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.
Courses of Study

Geology 312. Advanced Physical Geology and Geomorphology 3
Intensive study of dynamic earth processes, both constructional and destructional, which determine nature of earth's crustal features both large and small; topographic and geologic map interpretation; field work. Prerequisites: Geology 111, 112, and 311; and Geography 226.

Geology 315. Historical Geology and Stratigraphy 4
Consideration of the principles of stratigraphy and sedimentology allied with fossil study leading to a consideration of the sequence of geological phenomena in North America.

Geology 320. Geological Investigation in the Field 1-3 hours
Mr. Graham. Study of geologic field methods, maps, and aerial photos during first half of semester leading to a spring vacation field trip of five days' duration. Report of trip to be prepared during second half of semester. Field trip only (1 credit-hour) open to the student with a prerequisite of Geology 111-112 and consent of instructor.

Geology 361-362. 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 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. Upon the successful completion of the course, he receives credit transferable to his record at Denison.

Geology 461-462. Individual Work for Honors 3

Teaching of Science (See Education 311.)
**Denison University Bulletin**

**Geography**

Geography is a non-major field at Denison, but the student who may wish to pursue this discipline at the graduate level might major in Economics, Sociology or History. Such a student should elect 12-15 hours in Geography at Denison and should choose Geology as one of his years of science. Having completed such a program, a student will normally have little difficulty gaining admission to a graduate program in Geography at a high-ranking university.

**Geography 111. Earth Science (I)**  
Mr. Mahard, Mr. Graham. 4  
(Listed also as Geology 111.)

**Geography 112. Earth Science (II)**  
Mr. Mahard, Mr. Graham. 4  
(Listed also as Geology 112.)

**Geography 225. Geography of the Eastern United States**  
Mr. Mahard. 3  
Geomorphic provinces, their rocks, and terrain development. Emphasis on historical geography and continuing influence of environment upon the nation's development. (Fall semester.)

**Geography 226. Geography of the Western United States**  
Mr. Mahard. 3  
Geomorphic provinces, their rocks, and terrain development. Emphasis placed on appreciation and understanding of scenery; relationships between development of the West and environmental considerations. (Spring semester.)

**Geography 230. Geography of South America**  
Mr. Mahard. 3  
Environmental factors and their significance in the affairs of South America.
Courses of Study

**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.

**Geography 241. Geography of Asia** Mr. Mahard. 3
Asia is broadly studied to relate the environmental situation to the rapidly changing contemporary scene.

**Geography 261. World Political Geography** Mr. Mahard. 3
A study of natural environment and earth-man relationships as they bear on the current world political situation.

*An AFROTC Cadet may earn credit in this course in place of Air Science 402.*

**Geography 361-362. Directed Studies** Mr. Mahard. 2-4
Readings in Geography selected to enhance student's geographic comprehension.

**Government**

Mr. Stephens, Mr. Morrow (part-time), Mr. Wirt,
Mr. Brakeman, Mr. Beyle
Chairman (1962-65), Mr. Wirt

Major in Government

A student majoring in Government will complete 28 semester-hours of credit in the fields of this discipline. These include both an introductory and an additional course in American Government (Government 211 is a General Education requirement); both an introductory and an additional course in Foreign Governments; introductory courses in International Relations, Parties, and Theory, plus an extra course in one of these fields; a Law course; and two semesters of Senior Seminar or of Honors.

Individual Honors substitute for the seminars but are not counted in the required hours for a major.

A student majoring in Government is also required to take Economics 211 and Sociology 207.
A majoring student planning to do graduate study or expecting to enter the foreign service must demonstrate a reading knowledge of a modern foreign language by the beginning of the senior year.

**Government 211. American National Government**  
Staff.  3  
Study of the development, structure, and operation of our national government.

**Government 212. Comparative Government**  
Staff.  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.

**Government 213. American Federalism**  
Mr. Beyle.  3  
An analysis of state and local government in the American system. Examination of the political process as it operates and of current problems and tendencies in both the state and the community systems.

**Government 214. Administrative Policies of the National Government**  
Mr. Beyle.  3  
Analysis of the formation of public policy with emphasis on the federal policies. Examination of the forces which shape and limit the making of policy and its administration.

**Government 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.*

**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.
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.

Analysis of the forces which are responsible for conflict between nation-states. The nature of current international relations will be specifically reviewed as will selected means of moderating international conflict.

Analysis of the role of international organization, especially the United Nations, in international politics. Special emphasis will also be given to developing regional organization and to plans for a new international legal order.

The politics of selected countries of East, South, and Southeast Asia will be studied. Particular emphasis will be put on the
nationalist expression of the leaders of these countries and on the impact of this expression on international politics.

**Government 314. 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 Lenin, Stalin, and Khrushchev eras.

**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.

**Government 361-362. Directed Study**  
Staff. 3

**Government 403. Ancient and Medieval Political Thought**  
Mr. Stephens. 3  
The basic theories of European government from the time of Plato to Machiavelli.

**Government 404. Modern and Contemporary Political Thought**  
Mr. Stephens. 3  
The chief theories of European and American governments from Machiavelli to the present.

**Government 411. 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.

**Government 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.*
Courses of Study

GOVERNMENT 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.

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

TEACHING OF SOCIAL STUDIES (See Education 320.)

HISTORY
Mr. Stratton, Mr. Southgate, Mr. Chessman, Mr. Pollock
Mr. W. Preston, Mr. Watson, Mr. Huckaby, Mr. Todd, Mr. Wilhelm, Mr. Lever
Chairman (1963-66), Mr. Stratton

Major in History
A Minimum of 24 Semester-hours in History is required for a major. Courses specifically required include 211-212, 221-222, 231. All of these required courses should be taken as soon as possible after the student declares a major in History.

By the beginning of the senior year, a major preparing for graduate study should have a reading knowledge of a modern foreign language.

HISTORY 211-212. MODERN EUROPE
Messrs. Pollock, Watson, Huckaby, Lever. 3
A survey of the major political, economic, diplomatic, social, and cultural developments in Europe since the 16th Century. Prerequisite: General Education 21-22 or consent of instructor.

HISTORY 221-222. AMERICAN CIVILIZATION
Messrs. Chessman, Preston, Todd. 3
A comprehensive survey of the history of America from colonial times to the present. Political, diplomatic, social, economic, and intellectual developments will be included.

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History 231. Historical Research and Historiography  
Staff. 3
A study of methods of historical research and writing, of the concepts with which the historian must deal, and some of the writings of the great historians and of their differing views on the nature and purposes of the historical discipline. A number of research papers and essays are required. (Offered each semester.)

History 311. World War I and Its Aftermath  
Mr. Pollock. 3
(Offered in alternate years.)

History 312. World War II and Contemporary World Events  
Mr. Pollock. 3
(Offered in alternate years.)

History 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.

History 324. The American Frontier  
Mr. Wilhelm. 3
The frontier in American economic, political, and cultural development. Prerequisite: 221-222 or consent of instructor. (Offered in alternate years.)

History 327. American Diplomatic History  
Mr. Wilhelm. 3
A survey of American diplomatic history since the Revolution, emphasizing the establishment of principles of foreign policy, the territorial expansion of the 19th Century, and the rise to world power in the 20th Century. (Offered in alternate years.)
History 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.

History 333. The Colonial Period of American History
Mr. Todd. 3
A study of the economic, social, and political aspects of American History during the 17th and 18th centuries. (Offered in alternate years.)

History 335-336. 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 1715.

History 337. Modern Britain
Mr. Watson. 3
A political, social, and cultural history of Great Britain from 1715 to the present. Prerequisite: History 211-212 or consent of instructor.

History 341. China
Mr. Stratton. 3
A survey of the origin and formation of the basic patterns of Chinese traditional civilization, the Western impact and China's response, and the rise of Communism in modern China. (Offered in alternate years.)

History 342. Japan
Mr. Stratton. 3
An analysis of the origins and development of Japan's traditional society, her modernization and expansion, and subsequent reorganization since World War II. (Offered in alternate years.)

History 343. India
Mr. Stratton. 3
An introductory survey of the origin and formation of India's traditional Hindu culture, followed by consideration of the Moslem and Western intrusions, the rise of Indian nationalism, and the problems of independent India and Pakistan. (Offered in alternate years.)
History 344. Asian History and Culture  Mr. Stratton.  3
A course combining lectures, directed reading, and preparation of a research paper on some aspect of a coordinating theme to be determined by students' interests. Prerequisite: Previous study in any department of Asian materials or consent of instructor. (Offered in alternate years.)

History 345. Africa  Mr. Pollock.  3
A study of the history of Africa with particular emphasis on the relationship of current developments to colonial practices and to international rivalries during the 19th and 20th centuries. (Offered in alternate years.)

History 349-350. The Middle Ages  Mr. Southgate.  3
A seminar in the development of European ideas and institutions from the high Middle Ages to the Renaissance. (Offered in alternate years.)

History 351-352. Renaissance and Reformation  3
A study of the intellectual, political, economic, and social transformations in Europe from the 14th through the 16 Centuries, with some attention to overseas expansion. (Offered in alternate years.)

History 353. Intellectual History of Modern Europe (17th and 18th Centuries)  Mr. Huckaby.  3
The main currents of Western European thought examined as responses to scientific, economic, social, and political developments in eras of profound change. (Offered in alternate years.)
Courses of Study

History 354. Intellectual History of Modern Europe (19th and 20th centuries)  
Mr. Watson. 3  
(Offered in alternate years.)

History 355. Survey of Russian History  
Mr. Huckaby. 3  
A study of the development of Russian civilization and the state from the Middle Ages to the present.

History 356. France (1589-1815)  
Mr. Huckaby. 3  
The social, economic, and political development of France from 1589 to 1815 with special attention to the eras of Louis XIV and the French Revolution and Napoleon. (Offered in alternate years.)

History 361-362. Directed Study  
Staff. 3

431-432. Seminars  
Staff. 3  
Seminars are open to superior students with consent of the instructor. These courses will involve the preparation of a research paper, and (as registration warrants) will be offered in the following fields:

a. Early American History  
Mr. Todd
b. American Frontier  
Mr. Wilhelm
c. American Diplomatic History  
Mr. Wilhelm
d. American Social and Intellectual History  
Mr. Chessman
e. American Political and Economic History  
Mr. Preston
f. Tudor England  
Mr. Southgate
g. Modern England  
Mr. Watson
h. Far Eastern History  
Mr. Stratton
i. Africa: South of the Sahara Desert  
Mr. Pollock
j. The Enlightenment in Europe  
Mr. Huckaby
k. Modern European Intellectual History  
Mr. Watson
l. Renaissance and Reformation

461-462. Individual Work for Honors  
Staff. 3

Teaching of Social Studies (See Education 320.)
MATHEMATICS

Mr. Kato, Miss Wetzel, Mr. Sterrett, Mr. Grudin, Mr. Roberts, Mr. Prentice

Chairman (1963-66), Mr. Grudin

Senior Fellows (1963-64), Allen E. Gibson, Claudia Kent, Suzanne Stouffer, Beverly Welles, and Betsy Kraus

Junior Fellow (1963-64), Nancy Grosick

Major in Mathematics

Minimum Requirements for a major in Mathematics are 121-122, 221-222, 459-460, and five additional semester courses numbered above 300.

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 321-322, and should take as many courses as possible from Mathematics 307-308, 351-352, 365-366, 375, and 376. A reading knowledge of French and German is also recommended.

Both 365 and 375 are recommended for a student who plans to teach mathematics in secondary schools.

General Education 40a is a terminal course. A student desiring more work in the department will then continue with Mathematics 121.
Courses of Study

MATHEMATICS 108. MATHEMATICS OF FINANCE Staff. 3
Interest and annuities, life insurance, and reserves. Prerequisite: General Education 40a or Mathematics 121 or consent of instructor.

MATHEMATICS 121-122. ELEMENTARY MATHEMATICAL ANALYSIS Staff. 4
Introduces elementary ideas of The Calculus at the start and uses them throughout the course in an integrated study of topics in algebra and analytic geometry, including an introduction to solid analytic geometry. A fifth hour will be arranged for a part of the first semester for students who have had no plane trigonometry. Prerequisite: Three years of high school mathematics, General Education 40a or consent of instructor.

MATHEMATICS 203. SOCIAL STATISTICS Mr. Sterrett. 3
Adapted to students in Personnel Administration, Psychology, and Sociology.

MATHEMATICS 205-206. ECONOMIC STATISTICS Mr. Grudin, Mr. Prentice. 3
Adapted to students in Economics. Prerequisite: General Education 40a or Mathematics 121 or consent of instructor.

MATHEMATICS 211-212. FRESHMAN HONORS SECTION IN ELEMENTARY MATHEMATICAL ANALYSIS Staff. 4
An honors course for selected freshmen treating of analytic geometry and an introduction to The Calculus as an integrated course.

MATHEMATICS 213. SOPHOMORE HONORS SECTION IN THE CALCULUS Mr. Kato. 4
Includes such topics as linear algebra, partial differentiation, multiple integrals, infinite series, and an introduction to differential equations. Prerequisite: 212.

MATHEMATICS 221-222. THE CALCULUS Staff. 4
Includes such topics as linear algebra, partial differentiation, multiple integrals, and expansion of functions into infinite series. Prerequisite: 122 or consent of instructor.
MATHEMATICS 307-308. MATHEMATICS OF STATISTICS
Mr. Sterrett. 3
Introduction to the theory and applications of mathematical sta-
tistics, including frequency distributions of one and two variables,
sampling theory, elementary probability, multiple and partial cor-
relation, and generalized frequency distributions. Prerequisite: 222
or consent of instructor.

MATHEMATICS 311-312. TECHNICAL MECHANICS
Mr. Prentice. 3
The principles of applied mechanics with reference to their ap-
lication to engineering. Prerequisites: 222 and Physics 121-122.
(Offered in 1963-64 and in alternate years.)

MATHEMATICS 321-322. ADVANCED ANALYSIS
Miss Wetzel. 3
Principal topics are partial differentiation, Riemann and Stieltjes
integrals, indeterminate forms, infinite series, improper integrals,
Fourier series, and Laplace transform. Prerequisite: 222.

MATHEMATICS 351-352. DIFFERENTIAL EQUATIONS AND
NUMERICAL ANALYSIS  Mr. Prentice, Mr. Roberts. 3
Linear differential equations, existence theorems and numerical
integration techniques, error analysis, and numerical analysis.

MATHEMATICS 361-362. DIRECTED STUDY  Staff. 3

MATHEMATICS 365-366. MODERN ALGEBRA
Mr. Grudin. 3
Introduction to concepts of Algebra: Number system, theory of
numbers, determinants, matrices, domains, rings. Consent of in-
structor. (Offered in 1963-64 and in alternate years.)

MATHEMATICS 375. GEOMETRY
Mr. Grudin, Mr. Roberts. 3
An introduction to modern geometries.

MATHEMATICS 376. TOPOLOGY  Mr. Roberts. 3
An introduction to topological theories.

MATHEMATICS 407-408. PROBABILITY THEORY  Miss Wetzel. 3
Introduction to the theory and applications of probability. Pre-
requisite: 308 or consent of instructor.

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Courses of Study

MATHEMATICS 453. VECTOR ANALYSIS WITH INTRODUCTION TO TENSOR ANALYSIS  Mr. Kato. 4
Prerequisites: 321 or 352 and Physics 121-122.

MATHEMATICS 459-460. SELECTED TOPICS IN MATHEMATICS  Miss Wetzel. 2-3
Advanced topics, based on the student's knowledge and interests.
(Credit is withheld until completion of both semesters.)

MATHEMATICS 461-462. INDIVIDUAL WORK FOR HONORS STAFF. 3

TEACHING OF MATHEMATICS (See EDUCATION 335.)

MODERN LANGUAGES
MR. SECOR, F. L. PRESTON, MR. STEELE, MR. BANCROFT, MR. STERN, MR. EMONT, MR. JONAITIS, MR. HIRSHLER, MR. JOSEPH
CHAIRMAN (1961-64), MR. PRESTON

THE CHIEF AIM of the courses offered by the department is to give the student a firm command of the spoken and written foreign language through which he can gain an appreciation of the literature, art, science, and other cultural achievements of Western culture. In addition to excellent library facilities at the disposal of students, a modern, automatic electronic language laboratory supplements work in the classroom by offering further opportunity for audio-lingual practice and drill. A student registered in language courses is required to spend two to three hours' drill each week in the laboratory as part of his outside preparation.

A student wishing to spend a summer or the junior year abroad with officially sponsored and supervised programs should consult members of the department. Opportunities to perfect the student's command of the language are provided on the campus by the language tables, foreign movies, club meetings, field trips, and similar activities supervised by the department.
Certification by the Department of Education of the State of Ohio requires a minimum of 20 semester-hours of credit in one language (above the 111-112 level). A student desiring certification in two languages needs 20 hours' minimum in each language. 111-112 may be counted in the second language only.

**Teaching of Modern Languages (See Education 343.)**

**General Departmental Regulations**

A student desiring to major in the department or to receive a teaching certificate should begin his course work in the freshman year. A student wishing to fulfill the General Education requirement in Language (6 hours) by continuing the language begun in secondary school should also begin his course work in the freshman year. Under no circumstance may a student receive credit at Denison by repeating a course for which he received credit in secondary school and thereby admission to Denison. A student beginning a language he has never studied before may fulfill the General Education requirement in Language by successfully completing 111-112. A student continuing a language studied in high school for two years may fulfill the General Education requirement in Language by successfully completing 211-212. A student with one year's study in high school will need 112 and 211 to fulfill the General Education Language requirement. The General Education requirement in Literature (3 hours) may be fulfilled by successfully completing any literature course at the 300-level.

**Major in French, German, or Spanish**

Requirements for a major in French, German, or Spanish include a minimum of 24 semester-hours above the 111-112 level. At least a reading knowledge (211-212) of a second modern language is highly desirable for a major in the department. If only one language is studied, a student is not permitted to receive credit for more than 36 semester-hours (not counting 111-112 or 101-102). If more than one language is studied, the total hours in the department (including the 36 in one language) may not exceed 52 semester-hours (including 111-112, but not counting 101-102).

A student with more than 52 semester-hours in all courses in the department (not counting 101-102) must earn excess-hours.
over and above the 132 semester-hours required for graduation for the hours exceeding 52.

Russian is a Non-major Field. Courses in Italian and in Portuguese may be offered upon demand of ten or more students. A student may select his major adviser after initial consultation with the chairman of the department.

FRENCH

Mr. Secor, Mr. F. L. Preston, Mr. Emont, Mr. Jonaitis, Mr. Joseph

French 101-102. Area Study: France  Mr. Secor. 2-3
The cultural background and significant contemporary sociological and economic problems of France; its position in the affairs of the world today, and its relation to the United States. Attendance at the third class-hour and special reports are required of the student desiring three hours of credit. Offered in the English language. (Not counted in the maximum hours permitted in the department.)

French 111-112. Beginning French  Staff. 4
Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading. Two to three hours each week.
in the language laboratory are required. Does not count as credit toward a major. Not open to those who have previously studied French. No credit is given for 111 unless 112 is completed. A student with one year of credit in high school French may register for 112.

**French 211-212, Intermediate French**  
Staff. 3  
Review of sentence patterns, conversation, and reading of modern French prose. Drill in the language laboratory is required. Prerequisite: 111-112 or two years of high school French. A student with three years of high school French is enrolled in a special section of 211-212.

**French 213-214, Intermediate Conversation**  
Staff. 2  
Intensive practice in audio-lingual skills on the intermediate level. At least two hours each week in the language laboratory are required. Composition as required. (Either semester may be taken without the other.) Prerequisite: 111-112; to accompany or to follow 211.

**French 311-312, Introduction to French Literature**  
Staff. 3  
Novels by such 20th Century authors as Gide, Mauriac, Sartre, Duhamel, Colette, Saint-Exupéry, Proust, and Camus (first semester). Readings from Villon, Ronsard, DuBellay, Rabelais, Montaigne, Corneille, Racine, Molière, La Fontaine, Voltaire, Rousseau, Chateaubriand, Lamartine, Flaubert, and Hugo (second semester). Class discussion, outside reading, and term paper are required. Conducted in French. Prerequisite: 211-212 or four years of high school French.

**French 313-314, Advanced Conversation**  
Staff. 2  
Intensive practice in audio-lingual skills on the advanced level. Debates, short speeches, oral reports are required. At least two hours each week in the language laboratory are required. Given in French. Prerequisite: 213-214 or registration in 311. (Offered in 1963-64 and in alternate years.)
Courses of Study

FRNEH 317. 17TH CENTURY LITERATURE  Mr. Emont. 3
French classicism from Malherbe and Descartes to the theatre of Corneille, Molière, and Racine, and their contemporaries, Pascal, Bossuet, La Fontaine, La Rochefoucauld, La Bruyère, and Boileau, and Mmes. de Sévigné and Lafayette. Class discussion, outside reading, listening to recordings, and writing of term papers are required. Conducted in French. Prerequisite: 311-312. (Offered in 1964-65 and in alternate years.)

FRNEH 318. 18TH CENTURY LITERATURE  Mr. Preston. 3
Voltaire, Rousseau, Montesquieu, Diderot, and the leading playwrights and novelists of the century. Class discussion, outside reading, and term paper are required. Conducted in French. Prerequisite: 311-312. (Offered in 1964-65 and in alternate years.)

FRNEH 319. 19TH CENTURY PROSE AND POETRY  Mr. Secor. 3
Novelists: Chateaubriand through Balzac, Flaubert, de Maupassant to contemporary authors. Critics: Sainte-Beuve, Taine, Renan. Poets: From the Romanticists through the Symbolists. Class discussion, outside reading, term paper are required. Conducted in French. Prerequisite: 311-312. (Offered in 1963-64 and in alternate years.)

FRNEH 320. 19TH AND 20TH CENTURY THEATRE  Mr. Secor. 3
The Romantic, Realistic-Social, Naturalistic Schools, and modern trends including Camus, Anouilh, Montherlant, and Claudel. Class discussion, outside reading, and term paper are required. Conducted in French. Prerequisite: 311-312. (Offered in 1963-64 and in alternate years.)

FRNEH 361-362. DIRECTED STUDY  Staff. 3

FRNEH 401-402. PROBLEMS IN AREA STUDY  Mr. Secor. 3
A terminal integrating course of independent study to be taken in the senior year by the student majoring in the transdepartmental sequence, AREA STUDY: FRANCE.
I> University Bulletin

French 415-416. Advanced French Grammar and Writing  
Mr. Secor. 2
Intensive grammar review and composition on the advanced level. **Prerequisite: 311-312. (Offered in 1964-65 and in alternate years.)**

French 418. Senior Seminar  
Staff. 2
Advanced study of special problems based on student's needs, knowledge, and interests.

French 461-462. Individual Work for Honors  
Staff. 3

German

Mr. Stern, Mr. Hirshler

German 101-102. Area Study: Germany  
Mr. Hirshler. 2-3
The cultural and historical development of Germany; present problems, position in world affairs, and relations to the United States. Attendance at the third class-hour and special reports required of the student desiring three hours of credit. Offered in the English language. (Not counted in the maximum hours permitted in the department.)

German 111-112. Beginning German  
Staff. 4
Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading. Two to three hours each week are required in the language laboratory. **Does not count as credit toward a major.** Not open to those who have previously studied German. **No credit is granted for 111 unless 112 is completed.** A student with one year of credit in high school German may register for 112.

German 211-212. Intermediate German  
Staff. 3
Review of sentence patterns, conversation, and introduction to German classics. Drill in the language laboratory is required. Special section for students desiring readings in scientific German literature. **Prerequisite: 111-112 or two years of high school German.**

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Dr. Stern conducting German Table

**German 213-214. Intermediate Conversation**  
Stern. 2  
Intensive practice in audio-lingual skills on the intermediate level. At least two hours each week in the language laboratory are required. Composition and letter-writing as required. (Either semester may be taken without the other.) Prerequisite: 111-112.

**German 215-216. Scientific German Literature**  
Staff. 3

**German 311-312. Introduction to German Literature**  
Mr. Stern. 3  
Readings from leading German literary figures of the 20th Century such as Kafka, Thomas Mann, Rilke, Hofmannstal, Brecht. The Drama (first semester); prose and poetry (second semester). Prerequisite: 211-212 or three or four years of high school German.

**German 313-314. Advanced Conversation**  
Mr. Hirshler. 2  
Intensive practice in audio-lingual skills on the advanced level. Composition as needed. At least two hours in the language laboratory are required each week. Given in German. Prerequisite: 213-214 or 211-212 or consent of instructor.

**German 317. German Classics**  
Mr. Stern. 3  
Lessing, Schiller, and the classical German drama. Prerequisites: 212, 214 or three years of high school German. (Offered in 1964-65 and in alternate years.)

**German 318. Goethe's Works**  
Mr. Hirshler. 3  
Selections. Prerequisites: 212, 317, 319 or consent of instructor. (Offered in 1964-65 and in alternate years.)
GERMAN 319. 19th Century Prose
Beginning with the Romanticists and including recent literary
movements represented by Hauptmann, Schnitzler, Thomas Mann,
and other leading writers. Prerequisite: Same as for 317. (Offered
in 1965-66 and in alternate years.)
Mr. Stern. 3

GERMAN 320. 19th Century Drama
Kleist, Grillparzer, Hebbel, Hauptmann, and others. Prerequisite:
Same as for 318. (Offered in 1965-66 and in alternate years.)
Mr. Stern. 3

GERMAN 361-362. Directed Study
Staff. 3

GERMAN 401-402. Problems in Area Study
A terminal integrating course of independent study to be taken in
the senior year by the student majoring in the transdepartmental
sequence, Area Study: Germany.
Mr. Stern. 3

GERMAN 415. Survey of German Literature Before 1700.
Mr. Hirshler. 3
Prerequisites: Any 300-course or any two 200-courses, including
211-212.

GERMAN 416. Survey of German Literature After 1700
Mr. Stern. 3
Prerequisites: Same as for 415.

GERMAN 461-462. Individual Work for Honors
Staff. 3

RUSSIAN
Mr. Jonaitis

RUSSIAN 111-112. Beginning Russian
Drill in sentence patterns. Special attention to pronunciation and
oral work. Composition and reading. Two to three hours each
week are required in the language laboratory. Not open to those
who have previously studied Russian. No credit is granted for 111
unless 112 is completed. A student with one year of Russian in
high school may register for 112.
4
RUSSIAN 211-212. INTERMEDIATE RUSSIAN 3
Review of sentence patterns, conversation, and reading of modern Russian prose. Drill in the language laboratory is required. Pre-requisite: 111-112 or two years of high school Russian.

RUSSIAN 361-362. DIRECTED STUDY 3

SPANISH

MR. STEELE, MR. BANCROFT

SPANISH 101-102. AREA STUDY: LATIN AMERICA
Mr. Bancroft. 2-3
The cultural background and significant contemporary sociological and economic problems of Latin America; its position in the affairs of the world today, and its relation to the United States. Attendance at the third class hour and special reports are required of those desiring three hours of credit. Offered in the English language. (Not counted in the maximum hours permitted in the department.)

SPANISH 111-112. BEGINNING SPANISH Staff. 4
Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading. Two to three hours each week are required in the language laboratory. Does not count as credit toward a major. Not open to those who have previously studied Spanish. No credit is granted for 111 unless 112 is completed. A student with one year of Spanish in high school may register for 112.

SPANISH 211-212. INTERMEDIATE SPANISH Staff. 3
Review in sentence patterns, conversation, and reading of modern Spanish prose. Drill in the language laboratory is required. Pre-requisite: 111-112 or two years of high school Spanish. A student with three years of Spanish in high school is enrolled in a special section of 211.

SPANISH 213-214. INTERMEDIATE CONVERSATION Mr. Steele. 2
Intensive practice in audio-lingual skills on the intermediate level. At least two hours each week in the language laboratory are required. Either semester may be taken without the other. Pre-requisite: 111-112.
**Spanish 311-312. Introduction to Spanish Literature**

An introduction to the culture of Spain: Characteristics of modern Spain as seen through its history, geography, art, and literature, with primary attention to reading examples of leading Spanish literary works representative of principal periods in Spanish cultural history—the beginnings, Golden Age, Romanticism, Realism, the Generation of '98, and contemporary literature. Prerequisite: 211-212, or four years of high school Spanish.

**Spanish 313-314. Advanced Conversation**

Mr. Steele. 2

Intensive practice in audio-lingual skills on the advanced level. Letters and forms used in business. Prerequisite: 213-214 or 211-212 or consent of instructor. (Offered in 1964-65 and in alternate years.)

**Spanish 317-318. Hispanic Literature to 1700**

Mr. Bancroft. 3

A survey of the major medieval and Renaissance works and literary currents with emphasis on El Cid, El libro de buen amor, Jorge Manrique, the ballad, La Celestina; the 16th Century precursors to the Golden Age, including the pre-Lopean drama and
Courses of Study

*Lazarillo de Tormes:* the literature of discovery and conquest in America (first semester). The major authors and works of the second half of the 16th and the 17th centuries. In Spain: The mystics, Lope de Vega and his followers, Cervantes, Gongora, and Quevado; American authors: Ercilla y Zuniga, Sor Juana Inés de la Cruz (second semester). Prerequisite: 311-312. (Offered in 1964-65 and in alternate years.)

**Spanish 319-320. Hispanic Literature Since 1700**

Mr. Steele. 3

Romanticism and Realism in Spain and Spanish America, with preliminary view of the preceding Neo-classic tendencies. Espronceda, Duque de Rivas, Sarmiento, José Hernandez, Larra, Zorilla, Bécquer, Galdos, and other writers of the 19th Century (first semester). *Modernismo* and the Generation of '98 and subsequent leading tendencies and works to the present time, Rubén Darío, Unamuno, Benavente, A. Machado, Jiménez, Ortega y Gasset, Lorca, Gabriela Mistral, Mariano Azuela, and other writers (second semester). Prerequisite: 311-312. (Offered in 1963-64 and in alternate years.)

**Spanish 361-362. Directed Study**

Staff. 3

**Spanish 401-402. Problems in Area Study**

Mr. Bancroft. 3

A terminal integrating course of independent study to be taken in the senior year by the student majoring in the transdepartmental sequence, *Area Study: The Americas.*

**Spanish 413-414. Advanced Composition and Syntax**

Mr. Bancroft. 2

Intensive grammar review and composition on the advanced level. Prerequisite: 311-312. (Offered in 1963-64 and in alternate years.)

**Spanish 418. Senior Seminar**

Staff. 2

Advanced study of special problems based on student's needs, knowledge, and interests.

**Spanish 461-462. Individual Work for Honors**

Staff. 3

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MUSIC

MR. ESCHMAN (PART-TIME), MR. MOORE, MR. LARSON, MR. HUNTER, MR. BELLINO, MR. FISCHER, MR. OSBORNE, MISS RAMSEY

CHAIRMAN (1961-64), MR. MOORE

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 62 hours under the Bachelor of Music (Music Education). Those who are studying for a degree in Applied Music, Music Education or Music Theory and Composition will pay the regular college tuition but no additional charges for private lessons. (For costs to others, see COLLEGE COSTS.)
Courses of Study

Music 103-104. Choir, Orchestra, or Ensemble Training
Mr. Moore, Mr. Bellino, Mr. Hunter. 1
Three hours are required for one hour of college credit each semester, one being in Concert Choir, Orchestra, or Wind Instrument Ensemble; the others are elective Ensemble Music.

Music 105-106. Opera Workshop
Mr. Larson. 1
A course in the history and performance of operas.

Music 107-108. Chamber Music Workshop
Mr. Bellino, Mr. Hunter. 1
A course in the style and performance of chamber music.

Music 115-116. Harmony
Mr. Eschman. 3-4
A course in the harmonic structure of tonal music plus aural and keyboard training. May be taken by non-music majors for three hours' credit when only the harmony background is desired without the additional skills' study. Three hours of credit will be granted for the M-W-F sessions; for four hours of credit the T-Th sessions must be added.

Music 201. History of Music to the 18th Century
Mr. Osborne. 3
Alternates with 311. (Offered in 1963-64 and in alternate years.)

Music 202. History of Music from 18th Century to the Present Time
Mr. Osborne. 3
Alternates with 312. (Offered in 1963-64 and in alternate years.)

Music 203-204. Choir, Orchestra, or Ensemble Training
Mr. Moore, Mr. Bellino, Mr. Hunter. 1

Music 215-216. Advanced Harmony
Mr. Eschman. 3-4
Prerequisite: Music 115-116. (The same credit arrangement applies as in Music 115-216.)

Music 303-304. Score Reading and Conducting
Mr. Hunter. 1
Alternates with 305-306.
Music 305-306. Orchestration. Mr. Hunter. 1
One hour of lecture and one hour of laboratory. Alternates with 303-304.

Music 311-312. Musical Form. Mr. Eschman. 2
Analysis of the principal instrumental forms. Alternates with 201 and 202. (Offered in 1964-65 and in alternate years.)

Music 313. Survey of Solo Voice Literature. Mr. Moore. 2
A study of the development of music for the voice with special emphasis on the solo song with keyboard accompaniment.

Music 314. Survey of Piano Literature. Miss Ramsey. 2
A study of the development of keyboard music from the 16th Century through Contemporary Music. (Offered in 1964-65 and in alternate years.)

Methods in Music Education (See Education 315, 316.)

Music 331-332. Counterpoint. Mr. Fischer. 3
A study of counterpoint, consisting of analysis of selected contrapuntal compositions, and written exercises in the styles of selected models (with emphasis mainly on the style of J.S. Bach). Prerequisites: 221-222 and some proficiency in piano playing. (Offered in 1964-65 and in alternate years.)

Music 441-442. Composition. Mr. Hunter. 2
Composition of vocal and instrumental works in strict and free styles. Prerequisites: 221-222 and some proficiency in piano or organ playing.

Music 461-462. Individual Work for Honors. Staff. 3

Class Lessons in Applied Music

Music 141. Woodwind Instruments Class. Mr. Hunter. 1
Class instruction for the students majoring in Music Education.
Courses of Study

Music 142. Brass Instruments Class
Mr. Hunter. 1
Class instruction for the students majoring in Music Education.

Music 151-152. String Instruments Class
Mr. Bellino. 1
Class instruction for the students majoring in Music Education.

Music 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, Viola, Violoncello, Voice, and Wind Instruments (For credit, see Major in Applied Music.)
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, Viola, 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.)
Dr. Hepp and seminar in philosophy

PHILOSOPHY

MR. TITUS (PART-TIME), MR. HEPP, MR. BAYLEY, MR. AVEY, MR. MACOSKEY

CHAIRMAN (1961-64), 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 is General Education 40b; this course or Philosophy 312 is required of majors.

PHILOSOPHY 303. Basic Problems

A study of representative philosophical issues and problems as presented in selections from modern philosophical literature. (This course, together with Religion 303, satisfies the General Education 81 requirement.)

PHILOSOPHY 312. Symbolic Logic

A study of the special symbols used for analysis and deduction and the principles and methods basic to the construction of logistic systems. May not be counted toward fulfillment of the General Education 81 requirement. Majors who use this course to satisfy the departmental requirement in Logic will be assigned additional topics in general logic.

PHILOSOPHY 321. Ethics for Today

A study of the development, nature, and theories of morality with
special emphasis given to present-day problems of personal and social morality.

**Philosophy 323-324. Modern Social Philosophies**  
Mr. Titus. 3  
This year-course is a more thorough study of modern social philosophies than 326 (see below). Prerequisite: 323 for 324.  

**Philosophy 326. Modern Social Philosophies**  
Mr. Titus. 3  
This one-semester course is an examination of the social philosophy underlying democracy, capitalism, the consumers' cooperative movement, democratic socialism, communism, fascism, liberalism, etc.

**Philosophy 327. Philosophy of Civilization**  
Mr. Titus. 3  
A seminar dealing with the sources of Western civilization and recent philosophies of civilization as set forth by Spengler, Schweitzer, Toynbee, Whitehead, Northop, and others. Junior standing and consent of instructor.

**Philosophy 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.

**Philosophy 332. History of Philosophy**  
Mr. Avey. 3  
Modern philosophies which have shaped the contemporary mind. First-hand acquaintance with the philosophical classics from Descartes to Kant.

**Philosophy 333. 19th Century Philosophy**  
Mr. Hepp. 3  
Work of such philosophers as Hegel, Schopenhauer, Comte, J. S. Mill, Engels, Nietzsche, and Kierkegaard.

**Philosophy 334. Contemporary Thought**  
Mr. Hepp. 3  
Present-day philosophical movements such as instrumentalism, process philosophy, logical positivism, and existentialism as set forth by men such as Russell, Dewey, Whitehead, Ayer, Sartre, and Marcel.
PHILOSOPHY 343. CHINESE PHILOSOPHY Mr. Hepp. 3
Philosophies of China from ancient times to the present, with emphasis on the classical period. Study of representative classics in translation and more recent philosophical literature.

PHILOSOPHY 361-362. DIRECTED STUDY Staff. 3

PHILOSOPHY 401. PHILOSOPHY OF RELIGION Mr. Macoskey. 3
A seminar on the origin, development, nature, and problems of religion, and the types of religious philosophy. Open to juniors by consent of instructor.

PHILOSOPHY 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 major in science or philosophy or completion of General Education requirements in 53-54 and 51-52 or 55,56. Open to qualified juniors by consent.

PHILOSOPHY 420. PHILOSOPHY OF EDUCATION Mr. Macoskey. 3
An inquiry into the philosophical issues associated with education including such problems as The School in Relation to Society and The Aims and Values of Education. The educational philosophies of pragmatism, realism, idealism, and existentialism are critically evaluated. Same as Education 420.

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

PHYSICAL EDUCATION

MEN—Mr. Seils, Mr. Piper, Mr. Shannon, Mr. R. S. Scott, Mr. Hill, Mr. Doherty, Mr. Barclay, Mr. Googins

CHAIRMAN (1963-66), Mr. Seils

WOMEN—Miss Shepard, Mrs. Northrop, Miss Ross, Miss Van Horn, Miss O'Brien

CHAIRMAN (1962-65), Miss Shepard
Courses of Study

Required Courses for Men

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

Veterans who have had 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.

Credit in four of the six sports skills courses offered in 111-112 and 211-212 are needed to meet the graduation requirement. (A student majoring or minoring in the department may earn credits in the junior year by enrolling for 311, 312 with the consent of the departmental chairman.)

Physical Education (Men) 111-112. Sports Skills Staff. 1
A. Basketball and badminton
B. Paddle ball, tumbling and apparatus
C. Beginning golf and wrestling

Physical Education (Men) 211-212. Sports Skills Staff. 1
D. Tennis and trampoline
E. Volleyball and handball
F. Swimming and aquatics

Required Courses for Women

Physical Education is required of all freshman women on a basis of three hours a week; sophomore women, two hours a week. Each semester course earns one semester-hour of credit. (A student majoring or minoring in the department may earn credits in the junior year by enrolling for 311, 312 with the consent of the departmental chairman.)

Physical Education (Women) 111-112. Freshman Course Staff. 1
Orientation program, plus elective work from activities listed: Archery, bowling, square dancing, modern dance, fencing, golf, hockey, horseback riding, lacrosse, outing activities, swimming, tennis, trampoline, and volleyball.
Dr. Shepard teaching class in theory

**Physical Education (Women) 211-212. Sophomore Course**

Staff. 1

Elective work from activities as listed above with emphasis on advanced work.

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**Major in Health and Physical Education**

For a student desiring to become a teacher of Health and Physical Education in public or private schools, advanced courses are offered.

Departmental requirements for the State Provisional High School Certificate valid for teaching this subject in grades 7-12 include 30 semester-hours.

A man majoring in the department must also participate on at least two varsity sports' squads or serve as a service class assistant for two semesters or as an assistant intramural manager for two semesters.

A woman majoring in the department must also participate in student teaching under staff supervision in a required physical education program.

The 30-hour requirement includes Biology 210; Physical Education (women) 321w-322w; or four hours from Physical Education (men) 325m, 326m, or 328m; and from Physical Education 248, 438, 443, and 463; and Education 352, 354, and 445. In addition, courses in Education 213, 217, 420, 415, and 416 are necessary for State certification.
Courses of Study

Major in Physical Education (Emphasis in Dance)

This course structure is designed to provide emphasis in the special area of dance for the student who wishes preparation for teaching and leadership in college, private or public school, or community agencies. The requirement includes 311, 312, 305, 306, 361-362, Dance Club and Honors project, and 423; Biology 201 or 150, and General Education 55 and 56; Education 352; 354; Physical Education (women) 321w-322w; Physical Education 443 and 463. If the student wishes State certification for public school teaching, further required courses in Health Education 248, and Education 213, 217, 415, 416, 420, and 445 must be added.

The student may take six hours of dance technique in graded progressive sequences, six hours of Directed Study, and a possible six hours of Honors work involving Advanced Composition, Production, and Methods of Teaching.

Course Plan

Physical Education 119. First Aid Mr. Doherty. 2
The course follows the American Red Cross Manual and meets the requirements for the Standard and Advanced First Aid Certificate and also includes a unit in Athletic Injuries.

Physical Education 124. Camping and Outdoor Education Miss Ross. 2
The summer camp as an educational and recreational agency. Designed to prepare students for counselorship.

Human Anatomy and Physiology (See Biology 201.)

Physical Education 215. Introduction to Community Recreation Miss Shepard. 3
An introductory course in the principles, organization, and administration of community recreation.

Physical Education (men) 235m-236m. Sports Officiating Mr. Doherty. 2
Methods and techniques of officiating both interscholastic and intramural athletic contests. Football and basketball units are
designed to prepare students for the State of Ohio officials' examination. Two hours each of theory and of laboratory are given. Prerequisite: Sophomore standing.

**PHYSICAL EDUCATION 248. PERSONAL AND COMMUNITY HYGIENE**

Mr. Piper, Miss Van Horn. 4
Prerequisite: General Education 51-52 or 55 and Biology 150 or Biology 201.

**PHYSICAL EDUCATION 305. BEGINNING COMPOSITION FOR DANCE**

Mrs. Northrop. 2
An introductory course in 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. Experience in analysis and critique of original compositions. The final examination includes organization for and participation in a workshop presentation.

**PHYSICAL EDUCATION 306. INTERMEDIATE COMPOSITION FOR DANCE**

Mrs. Northrop. 2
Solo and group choreography designed, directed, costumed, lighted, and performed by class members as part of the annual Spring Dance program. Prerequisite: 305.

**PHYSICAL EDUCATION (WOMEN) 321W-322W. SPORTS TECHNIQUES**

Miss Van Horn. 2
Methods and materials for teaching the various team, individual, and dual sports in season.

**PHYSICAL EDUCATION (MEN) 325M. SPORTS TECHNIQUES**

Mr. Piper. 2
Methods and materials for teaching football. (Offered in alternate years.)

**PHYSICAL EDUCATION (MEN) 326M. SPORTS TECHNIQUES**

Mr. Shannon, Mr. Hill. 2
Methods and materials for teaching track and baseball. (Offered in alternate years.)
Courses of Study

PHYSICAL EDUCATION (MEN) 328m. SPORTS TECHNIQUES
Mr. Scott. 2
Methods and materials for teaching basketball. (Offered in alternate years.)

PHYSICAL EDUCATION 361-362. DIRECTED STUDY  Staff. 3

PHYSICAL EDUCATION 423. DANCE AS AN ART FORM
Mrs. Northrop. 3
Historical and philosophical concepts, theory and practice of teaching.

PHYSICAL EDUCATION 438. SENIOR SEMINAR
Miss Shepard, Mr. Seils. 2

PHYSICAL EDUCATION 443. PHYSIOLOGY OF EXERCISE AND KINESIOLOGY
Miss Ross. 2
Prerequisite: Biology 201.

PHYSICAL EDUCATION 444. ADAPTIVE PHYSICAL EDUCATION
Miss Ross. 2
Individual or adapted physical education, including corrective, restricted, and therapeutic activities, their teaching, and administration. Prerequisite: 443.

PHYSICAL EDUCATION 463. PRINCIPLES, ORGANIZATION, AND ADMINISTRATION
Miss Shepard. 3

PHYSICAL EDUCATION FOR THE ELEMENTARY AND HIGH SCHOOL PROGRAMS (See EDUCATION 352.)

METHODS IN RECREATIONAL DANCE (See EDUCATION 354.)

SCHOOL HEALTH EDUCATION (See EDUCATION 445.)
Dr. Morgan
helping student

PHYSICS

Mr. Wheeler, Mr. Morgan, Mr. Lee, Mr. Gamble, Mr. Carpenter
Chairman (1963-66), Mr. Wheeler (on leave 1963-64)
Acting Chairman (1963-64), Mr. Morgan

Major in Physics

The Major Program in Physics allows variability for individual needs through adaptations of two principal sequences: A student without training in The Calculus will elect 121-122, 311 and 344, at least two other courses in the 300-400 range, and two or more semesters of 340.

A student with strong preparation in Mathematics and basic knowledge of Physics may pursue an accelerated program by electing 221-222, 321-322, 331-332, 421-422, and additional laboratory courses and work in Directed Study and Individual Honors.

Physics 121-122. General Physics

This non-calculus course is designed to provide a thorough quantitative coverage of the foundations and concepts of physics and its approach toward an understanding of natural phenomena. Four lectures and one two-hour laboratory each week. Mathematics 121-122 must be taken concurrently unless departmental chairman gives consent to enroll without it.

Physics 221-222. Modern Analytical Physics

A course in General Physics providing an accelerated program through the use of Calculus methods, with emphasis on an analytical formulation of the concepts and methods of physics, and with applications drawn from the active fields of modern physics. Four lectures and one two-hour laboratory each week. Open to freshmen with strong high school Mathematics and Physics. Mathematics 211-212 or 221-222 must be taken concurrently.
PHYSICS 311. ELECTRICAL MEASUREMENTS 3
The theory and proper use of electrical instruments for the precise measurement of electrical and magnetic quantities. One lecture and two 3-hour laboratories each week. Prerequisite: 121-122 or 221-222 and consent of instructor.

PHYSICS 321-322. INTRODUCTORY MATHEMATICAL PHYSICS  Staff. 3
An introductory course in classical, mathematical physics designed to provide the student with a comprehensive foundation for modern theoretical physics. Three lectures each week. Prerequisites: The Calculus and Physics 221-222 or junior standing.

PHYSICS 331-332. ATOMS, MOLECULES, NUCLEI, AND THE SOLID STATE  Staff. 4
An intensive quantitative survey of the active fields of present-day physics. Four lectures each week. Prerequisite: Junior standing or consent of departmental chairman.

PHYSICS 340. ADVANCED LABORATORY  Staff. 1
Selected experiments designed to supplement the work in advanced courses. One 3-hour laboratory each week. May be taken each semester for a maximum of four semesters. Prerequisite: Junior standing.

PHYSICS 344. ELECTRONICS AND ITS APPLICATION 3
Fundamental principles of thermionic and solid-state devices and their application to equipment and instruments in communications and research.

PHYSICS 361-362. DIRECTED STUDY  Staff. 3

PHYSICS 421-422. ELECTRICITY, MAGNETISM, AND ELECTROMAGNETIC WAVES  Staff. 3
Sources and descriptions of electric and magnetic fields and their interactions. Maxwell’s equations of the electromagnetic field with applications to physical and microwave optics. Three lectures a week. Prerequisite: Senior standing or consent of departmental chairman.
PSYCHOLOGY

Mr. Wolf, Mr. Mountjoy, Mr. Leidy, Mr. Malott, Miss Paul, Mr. Tritt (part-time), and others (part-time)

Chairman (1961-64), Mr. Mountjoy

Major in Psychology

A Major in Psychology requires a minimum of 27 semester-hours of credit in Psychology including General Education 56, Psychology 341, 413, 414, and 441. In addition, a student shall take four courses, one of which must be 315 or 316. Not to be counted in these four courses are Directed Study, Minor Problems, or Honors courses.

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 courses in Mathematics, Biology, and Physics, as advised, to meet individual needs. General Education 40a and 40b are strongly recommended.

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 General Education 56, Psychology 226, 320, 341, 342, and 417.

A major is also required to take the following related courses: Economics 211-212, 317, 318; Sociology 207, 415; and Government 211 or 212.
A major should also register for as many as possible of the following related courses (a minimum number of 9 semester-hours in this group is required); Economics 223-224, 316, 419; Government 231-232, 302; Mathematics 203; Speech 221; and Education or other related courses as advised.

*General Education 56 is prerequisite to all other courses in this department.*

**Psychology 217. Child and Adolescent Development**  
Mr. Carter. 3  
Psychological development especially during the school years. Also listed as Education 217. (Offered each semester.)

**Psychology 226. Theories of Personality**  
Mr. Smith, Mr. Tritt. 3  
Motivations of man with emphasis upon behaviors requisite for adequate living. (Offered each semester.)

**Psychology 315. Experimental Psychology: Sensation and Perception**  
Mr. Mountjoy. 3  
Experimental approach to human perceptual behavior emphasizing experimental design and research.

**Psychology 316. Experimental Psychology: Learning and Motivation**  
Mr. Malott. 3  
Experimental approach to problems of human and animal learning and motivation emphasizing experimental design and research.

**Psychology 320. Personnel Psychology**  
Mr. Leidy. 3  
A consideration of the psychological principles and procedures in effective personnel management, with special reference to business and industry.
PSYCHOLOGY 338. SOCIAL PSYCHOLOGY  Mr. Mountjoy.  3
Individual behavior as it is influenced by cultural forces.

PSYCHOLOGY 339. PHYSIOLOGICAL PSYCHOLOGY  3
A study of the physiological mechanisms of behavior. Prerequisite: General Education 51-52 or 55 and Biology 150, or consent of instructor.

PSYCHOLOGY 341. PSYCHOLOGICAL MEASUREMENTS  Mr. Malott.  3
Theory of psychological measurements.

PSYCHOLOGY 342. PSYCHOLOGICAL TESTS AND MEASUREMENTS  2
Application of individual and group tests.

PSYCHOLOGY 345-346. MINOR PROBLEMS  Staff.  2-3
Independent work on selected topics under the guidance of staff members. Consent of instructor.

PSYCHOLOGY 361-362. DIRECTED STUDY  Staff.  3

PSYCHOLOGY 411. ABNORMAL PSYCHOLOGY  Mr. Wolf.  4
Psychopathology: Its development, course, and treatment with emphasis upon prevention and cure.

PSYCHOLOGY 413. HISTORY OF PSYCHOLOGY  Mr. Lichtenstein.  3
A review of the history of psychological thought and theory.

PSYCHOLOGY 414. SYSTEMATIC PSYCHOLOGY  Mr. Lichtenstein.  3
A study of the schools of psychological thought and theory.

PSYCHOLOGY 417. INDUSTRIAL PSYCHOLOGY  Mr. Leidy.  3
Psychological principles and methods as they contribute to the solution of industrial problems. Prerequisite: 341.

PSYCHOLOGY 441. ADVANCED GENERAL PSYCHOLOGY  Mr. Wolf.  3
Designed to integrate the student's knowledge of psychology.
Courses of Study

PSYCHOLOGY 445-446. MINOR PROBLEMS  Staff. 2-3
Independent work on selected topics under the guidance of staff members. Consent of instructor.

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

RELIGION

MR. MARTIN (ON LEAVE IN 1963-64), MR. LEE O. SCOTT, MR. EISENBEIS, MR. WOODYARD (PART-TIME), MR. GIBBONS (PART-TIME)

CHAIRMAN (1963-66), MR. LEE O. SCOTT

Major in Religion

Among the 24 semester-hours of credit for a major in this department 211, 212, 213-214, and 303 are required. A student is advised to take at least six hours of Philosophy.

The major in Religion is a general liberal arts major, rather than a preparation for professional service. A student who plans to attend a theological seminary is advised, however, to take at least 12 hours of Religion during his undergraduate course. Especially recommended are 211, 212, 213-214, 217, and 303.

A pre-theological student should consult with members of the department in regard to preparation for seminary studies.

RELIGION 211. INTRODUCTION TO THE OLD TESTAMENT  Mr. Eisenbeis. 3
RELIGION 212. INTRODUCTION TO THE NEW TESTAMENT

Mr. Eisenbeis. 3

An introduction to the religion and literature of the New Testament; the rise of the Christian Church.

RELIGION 213-214. HISTORY OF CHRISTIAN THOUGHT

Mr. Martin, Mr. Scott. 3

A survey of the development of Christianity from the apostolic church through the Middle Ages (first semester), and from the Reformation to the present time (second semester). The rise of the principal theological ideas, the changing concept of the church, trends and movements within Christianity, and changing attitudes toward ethical problems, such as war, the state, the family, and property. (Offered in 1963-64 and in alternate years.)

RELIGION 217. RELIGIONS OF ASIA

Mr. Martin, Mr. Eisenbeis. 3

A study of the major religions of Asia with special reference to Hinduism, Buddhism, and Islam.

RELIGION 218. CONTEMPORARY AMERICAN RELIGIOUS GROUPS

Mr. Martin. 3

A survey of the development of religion in America; the rise of the major denominations and representative sects, with reference to their origin, organization, and faith and practice; a study of movements such as Fundamentalism, the Social Gospel, and the Ecumenical Movement. (Not offered in 1963-64.)

RELIGION 301. CHRISTIAN ETHICS

Mr. Scott. 3

A critical study of the fundamentals of Christian morality as represented in contemporary Christian authors. Recommended is 213-214.

RELIGION 303. CONTEMPORARY RELIGIOUS THOUGHT

Mr. Scott. 3

A study of the principal contemporary forms of Christian and Jewish theology with reference to such basic issues as the doctrine of God, the Person of Christ, the nature of man, and the nature of the religious community. Recommended is 213-214.
Courses of Study

Religion 311. Christian Classics  
Mr. Martin. 3  
A careful study of selected writings which have expressed classical forms of the Christian faith, which have significantly influenced the development of Christian thought. Such works as Augustine’s Confessions, Luther’s Lectures on Romans, and Kierkegaard’s Fear and Trembling, will be read. (Offered first semester 1964-65 and in alternate years.)

Religion 324. Seminar in Religion and Psychology  
Mr. Woodyard. 3  
A study of the inter-relationships between contemporary Christian and psychological interpretations of the nature of man, the self, freedom and determinism, and human destiny. Junior standing and consent of instructor.

Religion 336. Religion and Culture  
Mr. Martin. 3  
The relationship between historic religions and the cultures in which they come to expression. Attention is given to Christianity as compared with Hinduism and Buddhism; the relation of religion to language, the arts, and other aspects of culture. (Offered second semester 1964-65 and in alternate years.)

Religion 361-362. Directed Study  
3  
Philosophy of Religion (See Philosophy 401.)

Religion 461-462. Individual Work for Honors  
3  

Sociology  
Mr. Mitchell, Mr. Crist, Mr. Valdes, Mr. D. G. Dean,  
Mrs. Watson (part-time)  
Chairman (1962-65), Mr. Valdes

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 re-
Standing—Dr. Valder, Dr. D. G. Dean
Seated—Dr. Crist, Mrs. Watson, Dr. Mitchell

search 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, 420, either 219 or 222. For a broader background in the Social Sciences he is required to earn credit in both Economics 211 and Government 211. In addition at least 12 semester-hours of credit are to be selected from the following related courses: Economics 212, 312, 313, 317, 318, 332, 413; Geography 226, 261; Government 212, 214, 302, 311, 312, 313; History 221-222; Mathematics 121-122, 203, 221-222; Philosophy 321, 326, 327, 403; Physical Education 215; Psychology 217, 226, 338; 411; Religion 217, 218, 301, 336; French 101-102, German 101-102, and Spanish 101-102.

A student contemplating graduate study must take Sociology 222 and should secure a reading knowledge of a Modern Language.

It is recommended that Sociology 207 be taken in the sophomore year. It will serve as a prerequisite for all Sociology courses except Sociology 201, which has no prerequisite.
SOCIOLOGY 201. 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.)

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.

SOCIOLOGY 208. HUMAN ECOLOGY
Staff. 3
Population distribution, composition and growth, and its bearing on current economic, political, and social problems.

SOCIOLOGY 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.

SOCIOLOGY 219. METHODS IN SOCIAL RESEARCH
Staff. 3
An elementary course for non-graduate school majors in the methods and interpretation of social research.

SOCIOLOGY 220. LABORATORY SOCIOLOGY
Staff. 1
A 2-hour laboratory approach to the study of social research, tools, and methods. To be taken concurrently with Sociology 219 or 222.

SOCIOLOGY 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.

SOCIOLOGY 307. RURAL-URBAN REGIONS
Mr. Dean. 4
Comparative and interrelated study of rural-urban life considering the physical, institutional, social, cultural, and economic factors of modern living.
Sociology 308. Social Work  
Staff. 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.

Sociology 312. Race Problems in the United States  
Mr. Mitchell. 4  
Indians, Orientals, Negroes, and other minority groups in the U.S.A.

Sociology 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. Prerequisite: 201 or 207.

Sociology 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.

Sociology 315. Community Organization  
Mr. Dean. 3  
A study of natural and interest groupings within the community; analysis of community structure and the problems of community organization; the formation and analysis of programs for making effective community services and institutions.

Sociology 317. The Sociology of Religion  
Mr. Dean. 3  
A study of the institution of religion, particularly from the structural-functional approach. (Offered in 1963-64 and in alternate years.)

Sociology 318. Educational Sociology  
Mr. Valdes. 2  
Prerequisite: Sociology 207 or Education 217. (Also listed as Education 318.)
Courses of Study

Sociology 330. General Anthropology  Mr. Valdes. 3
A descriptive, comparative, and generalizing study of man and his culture.

Sociology 340. Collective Behavior  Mr. Dean. 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.

Sociology 361-362. Directed Study  Staff.
Credit earned will be determined by departmental evaluation.

Sociology 405. Nursery School  Mrs. Watson. 3
This course introduces the student interested in the young child to the principles and theories underlying education for the preschool 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.

Sociology 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, and of the behavior of formal and informal groups in industry. The methodology of social research for analyzing and resolving group tensions in industry.

Sociology 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.

Sociology 420. Seminar  Mr. Mitchell. 3
Advanced study of special problems suggested by courses already taken. Open only to majors.

Sociology 461-462. Individual Work for Honors  Staff. 3

Teaching of Social Studies (See Education 320.)
Denison University Bulletin

SPEECH

Mr. Crocker, Mr. Hall, Mr. Dresser, Mr. Stebbins

Chairman (1963-64), Mr. Crocker

Major in Speech

A Student Majoring in Speech shall elect a minimum of 24 semester-hours of credit in Speech 225, 312, 331, and 309 or Education 339, and other courses which will be suggested to conform to the needs of the individual student.

Speech 113-114. Oral Reading (Mr. Crocker. 3)

Not open to students who have received credit in Theatre Arts 113 or 114.

Speech 211-212. Public Speaking (Mr. Crocker. 3)

Speech 218. Speech Composition (Mr. Dresser. 3)

A study of the principles governing the organization, testing, and communication of ideas. The role of abstracting in organizing and interpreting experience, and in communicating with others. Emphasis is placed on methods by which abstract concepts can be made vivid and relationships between concepts communicated to a listener.

Speech 219. Intercollegiate Debating (Mr. Dresser. 2)

An intensive investigation and analysis of the national intercollegiate debate question leading to the formulation, testing, and presentation of argument pertaining to it. Emphasis is placed on developing the ability to reason cogently under psychological pressure. All students will participate in intercollegiate debates. (A total of six hours in debating may be counted toward graduation.)

Speech 220. Discussion and Debate (Mr. Crocker. 3)

How to lead and take part in group discussions. Parliamentary law, conferences, discussion, argumentation.

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Courses of Study

Speech 221. Business and Professional Speaking  
Mr. Crocker. 3
Advanced public speaking. Prepared speeches appropriate to business and professional life. Consent of instructor.

Speech 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 10s or its equivalent.

Speech 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.

Speech 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.

Speech 228. Television Production  
Mr. Stebbins. 3
Analysis of television as a mass communication media, incorporating a study of program types, their structure, and essential characteristics. The creation and writing of programs for television is stressed, as well as the study of production problems and techniques.

Speech 229. Contemporary Radio  
Mr. Hall. 2
During spring vacation a trip to the four major radio networks in New York is 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.

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SPEECH 309. SEMINAR IN SPEECH  
Readings and reports in the six areas of speech.

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.

SPEECH 329. APPLIED PHONETICS  
Mr. Hall. 3  
A study of significant speech sounds and the application of phonetic concepts to both normal and aberrant speech for evaluative purposes. Required of speech majors planning to specialize in speech therapy.

SPEECH 330. VOICE AND DICTION  
Mr. Hall. 3

SPEECH 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.

SPEECH 361-362. DIRECTED STUDY IN SPEECH OR RADIO  
Staff. 3  

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

TEACHING OF SPEECH (See EDUCATION 339.)
Courses of Study

THEATRE ARTS

MR. WRIGHT, MR. BRASMER, MR. R. G. SMITH

CHAIRMAN (1961-64), MR. WRIGHT

Major in Theatre Arts

A Student Majoring in Theatre Arts shall elect 28 to 32 semester-hours. Among the courses should be 111, or General Education 33; 113, 215, 216, 217, 224 or 301, 323, 326, and 415 with additional hours in other courses representing acting, technique or theory, and criticism. Recommended courses in allied fields are English 215 and 330, and such other courses as the department feels the student may need.

The candidate for the Bachelor of Fine Arts degree in Theatre Arts will, in four years, choose a minimum of 32 hours from the regular Theatre courses. An additional 12-18 hours in Theatre will be arranged with each individual student in accordance with his particular needs or talents.

In the freshman year the Bachelor of Fine Arts candidate should carry General Education 11-12, 18, 21-22, the second year of the foreign language carried in high school or French 111-112. Theatre courses should be Theatre Arts 111, 113, 227, and 228.

Major in Theatre Arts (Emphasis in Dance)

A Combined Major in Theatre Arts and Dance, with an emphasis on Dance, may be earned. It involves carrying Physical Education 311, 312, 305, 306, 361-362, Dance Club and Honors Project and 423; Education 354; Theatre Arts 111, 227-228, 215, 216, 217, and 324. This major prepares the student for advanced study and for teaching the related arts in recreational agencies or in a college.

Combination majors with Theatre Arts and other departments can be arranged by special permission.

Theatre Arts 111, INTRODUCTION TO THE THEATRE Staff. 3

Beginning course for the student with some experience or interest in dramatics. Theory and practice in theatre history, theatre production and criticism. Required of B.F.A. candidates. Others may substitute this course for General Education 33.
THEATRE ARTS 113. DRAMATIC INTERPRETATION  Mr. Wright. 3
A student majoring in Theatre Arts may substitute this course for General Education 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.

THEATRE ARTS 114. ADVANCED DRAMATIC INTERPRETATION  Mr. Wright. 3
An elective to follow Theatre Arts 113 or General Education 10t. 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.

THEATRE ARTS 215. SUPERVISION OF HIGH SCHOOL DRAMATICS  Mr. Wright. 3
A survey of the needs and the organization of a program in dramatics at the secondary school level and the problem of play selection, acting, and direction. Designed for non-majors with theatre interest and for certification to teach. Non-majors must carry 217 to receive credit, but 217 need not be taken concurrently with 215.
THEATRE ARTS 216. PLAY PRODUCTION FOR THE NON-PROFESSIONAL THEATRE
Mr. Wright. 3
Play selection, analysis, acting, make-up, direction, organization of personnel and equipment. Prerequisite: 215 recommended.

THEATRE ARTS 217. STAGECRAFT
Mr. Smith. 3
Basic course in physical theatre production, stage machinery and techniques, nomenclature, construction and painting of scenery, and backstage organization. May be taken independently but must be taken to receive credit in 215 or 216.

THEATRE ARTS 224. STAGE LIGHTING
Mr. Smith. 3
Theory and practice of basic electricity, lighting, control equipment, theory and practice in design of instruments, design and placement of instruments for effective lighting. Practice in lighting design and use of color. Prerequisite: 217 or consent of instructor.

THEATRE ARTS 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, $130. Consent of instructor.

THEATRE ARTS 227-228. ACTING FOR BEGINNERS
Mr. Brasmer. 2
First semester—Pantomime and stage movement.
Second semester—Character analysis and creation; emotional interpretation and projection.

THEATRE ARTS 301. SCENIC DESIGN
Mr. Smith. 3
Theory and practice of scene design. Practice in perspective drawing, water color rendering, drafting of plans. Prerequisite: 217 or consent of instructor and junior standing.

THEATRE ARTS 323. THEATRE HISTORY
Mr. Brasmer. 3
Survey of World Theatre from the Greeks to the present, exclusive of America. Emphasizes influences—cultural, social, and political—as well as personalities, methods of production, and development of drama.
Theatre Arts 324. American Theatre and Film History
Mr. Brasmer. 3
History of the American Theatre and the history and birth of the American Film in the light of their aesthetic dynamics and interrelationships.

Theatre Arts 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.

Theatre Arts 361-362. Directed Study
Staff. 3

Theatre Arts 401. Theatre Practicum
Staff. 2-12
Theory and creative practice in selected areas of theatre arts for the talented and superior student. Not more than eight semester-hours of credit may be gained in the Denison Summer Theatre. As registration warrants, the following areas will be offered but not to exceed a total of 12 credit-hours will be granted toward graduation.

a. Problems in Costuming
b. Advanced Acting
c. Problems in Styles of Direction
d. Special Studies in Drama
e. Problems in Theatre Management
f. Advanced Problems in Scenic and/or Lighting Design
g. Problems in Theatre Design

Theatre Arts 415. Play Direction
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 University Theatre. Prerequisite: 15 hours of Theatre Arts and consent of instructor.

Theatre Arts 461-462. Individual Work for Honors
Staff. 3
Dr. Grimes counseling in art studio

VISUAL ARTS

Mr. H. King, Mr. Grimes, Mrs. Campbell, Mr. Hirschler, Mrs. Bailey (part-time), Mr. Haycock (part-time)

Chairman (1961-64), Mr. Grimes

Major in Art

All programs are individually planned by the student with departmental personnel as advisers as the major is selected. Particular emphasis is given to long-range educational planning.

The first two years of the program are organized to test the student’s abilities and interests in relation to professional opportunities in the art and art-related occupations.

Four divisions of study in the Department of Visual Arts include:

The Art History program leading to graduate study in art history, connoisseurship, museum work, and conservation (care
and restoration of works of art). This program does not require Studio courses.

The Studio program leading to graduate study in painting, sculpture, ceramic and industrial design.

The General program for the student who plans an art-related career in library science, government cultural services, and art criticism, as well as in business and industry.

The Applied Arts program in the studio area for the student who plans to work in the commercial fields of advertising, fashion design, fashion illustration, interior decoration, and others.

Degrees Offered include Bachelor of Arts degree with a major in Art requiring 24 to 36 semester-hours of credit in the department and the Bachelor of Fine Arts degree which requires 44 to 50 semester-hours of credit in the department.

A candidate for the Bachelor of Fine Arts degree should take General Education 11-12, 18, 21-22, the second year of the foreign language started in high school or French 111-112, in addition to Visual Arts 101-102, 111-112, and 113-114. General Education 31 serves as an introduction to art appreciation but does not count toward a major in the department.

History of Art Courses

Visual Arts 101-102. Introductory Course Mr. Grimes. 1
General course in art structure, terminology, and criticism designed to integrate the several courses and to acquaint the student with professional opportunities. To be taken concurrently with 111-112 and 113-114. (Not offered in 1963-64.)

Visual Arts 121. Field Trip Staff. 3
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 31.
Courses of Study

VISUAL ARTS 205-206. HISTORY OF ART
Mr. King. 3
General survey of the arts of the Western World. Ancient and Medieval (first semester); Renaissance and Modern (second semester). May be taken separately.

VISUAL ARTS 303. ART OF ANTIQUITY, GREEK AND ROMAN
Mr. L. R. Dean. 3
A survey of the ancient arts of the valleys of the Nile, and the Tigris-Euphrates. The development of ancient Greek architecture, sculpture, and vase painting from Minoan through Hellenistic times; the contribution of archeology to the knowledge of Greek Art.

VISUAL ARTS 304. MEDIEVAL ART
Mr. Hirshler. 3
A selective survey of Early Christian, Byzantine, Romanesque, and Gothic Arts considered in their social and cultural context.

VISUAL ARTS 305. RENAISSANCE ART
Mr. King. 3
Study of architecture, sculpture, and painting of the Italian-centered Renaissance beginning with the Humanism of Giotto in the Trecento and through the Mannerist crisis of the early 1600's.

VISUAL ARTS 306. BAROQUE ART
3
The art of Italy, France, The Netherlands, and Germany from 1600 to 1750 with emphasis on Rubens, Rembrandt, Poussin, Bernini, Mansart, and others.

VISUAL ARTS 307. ORIENTAL ART
Mrs. Bailey. 3
A comprehensive study of the art of India, China, and Japan approached through the religions and cultures of the Orient.

VISUAL ARTS 407. MODERN ART
Mr. Grimes. 3
19th Century arts through Impressionism, and contemporary movements in architecture, sculpture, painting, and the crafts.

Studio Courses

VISUAL ARTS 103-104. ELEMENTS OF ART
Mrs. Campbell. 2
Studio course for the student wishing some practice in art but not choosing it as a major. Work includes both basic design problems and drawing in various media.
VISUAL ARTS 111-112. DRAWING
Mrs. Campbell. 2
Drawing from still life, figure, and landscape with problems in composition and perspective. To be taken concurrently with 101-102 and 113-114.

VISUAL ARTS 113-114. DESIGN
Mrs. Campbell. 2
Line, plane, and volume problems in black and white, color, and 3-dimensional materials. To be taken concurrently with 101-102 and 111-112.

VISUAL ARTS 211-212. LIFE DRAWING
Mr. Grimes. 3
Study from the human figure in charcoal and other media with emphasis on structure in line, value, and color.

VISUAL ARTS 215-216. PAINTING
Mr. Grimes. 2
Problems in watercolor or oil painting and other media from still life, the human figure, landscape, and non-figurative approaches to pictorial organization. Prerequisites: 112 and 114.

VISUAL ARTS 221-222. CERAMICS
3
Basic techniques of building ceramic forms by hand and by wheel as well as by glaze formula, decorative techniques, and the firing processes. The second semester work concentrates on ceramic sculpture.

VISUAL ARTS 231-232. GRAPHICS
Mrs. Campbell. 2
The several media of printmaking include woodcut, linoleum, and etching in black and white and in color.

VISUAL ARTS 241-242. SCULPTURE
3
Experiments in 3-dimensional design in various media including clay, casting in plaster, and direct work in wood.

VISUAL ARTS 315-316. INTERMEDIATE PAINTING
Mr. Grimes. 3
Prerequisite: 216.
Doing oil painting in studio

**Visual Arts 351. Technical Drawing and Industrial Design**
Mr. King. 4

Lettering, technical drawing, and design with hand and power tools applied to product design and graphic representation. Prerequisite: 111 and 113 (for majors).

**Visual Arts 361-362. Directed Study**

3

For the student of marked creative ability who wishes to pursue advanced subjects not otherwise listed, such as design, drawing, graphics, ceramics, or history, and criticism.

**Visual Arts 401. Visual Arts Practicum**

2-12

Theory and creative practice in selected areas of the visual arts for the talented and superior student. As registration warrants, the following areas will be offered not to exceed a total of 12 semester-hours of credit.

- a. Figure and Portrait Painting
- b. Mural Painting
- c. Historic Methods and Materials of Painting and Drawing
- d. Glaze Calculation
- e. Ceramic Sculpture
- f. Graphics
- g. Commercial Art
- h. Fashion Illustration
- i. Seminar in Art Theory

**Visual Arts 461-462. Individual Work for Honors**

Teaching of Public School Art (See Education 341.)
NON-MAJOR AREAS
AIR SCIENCE

Chairman, Col. Grubb

Officer-in-Charge (1962-65), L.T. Col. Glover

Since 1952 the United States Air Force has maintained an Air Force Reserve Officer Training Corps on the campus of Denison University for the purpose of training officer candidates for the United States Air Force.

Satisfactory completion of outlined courses and other Air Force requirements will make the student eligible for a commission as second lieutenant in the United States Air Force Reserve upon graduation from Denison. Distinguished graduates of the program may apply for Regular Air Force Commissions.

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.
Courses of Study

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 courses; (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 four years after receipt of the commission.

The Air Force blue uniform is provided without cost to the student and is worn during one day a week 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. 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 with the AFROTC Marching Band, the AFROTC Drill Team, and the AFROTC Rifle Team. Outstanding advanced course students are eligible for selection as members of the Air Honor Society.

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 420 hours, allocated as follows: Freshman and Sophomore years, 60 hours each; Junior and Senior years, 150 hours each; and Summer Camp, an additional 196 hours.

Basic courses are open to all physically qualified male students. Advanced courses are open to physically qualified male students who are accepted by the PAS. All interested students should con-
fer with a member of the department prior to registration. (See Courses in General Education for other requirements.)

The Flight Instruction program provides a senior student qualified for pilot training with 35½ hours of flight training in light aircraft at no expense to the student.

Course Sequence

AIR SCIENCE 101-102. FOUNDATIONS OF AEROSPACE POWER
Capt. Frost, 1
An introductory examination of the factors of aerospace power, major ideological conflicts, requirements for military forces in being, responsibilities of citizenship, development and traditions of the military profession, role and attributes of the professional officer in American democracy, organization of the armed forces as factors in the preservation of national security, and the United States Air Force as a major factor in the security of the free world.

AIR SCIENCE 201-202. FUNDAMENTALS OF AEROSPACE WEAPON SYSTEMS
Capt. Tuttle, 1
An introductory survey of aerospace missiles and craft, and their propulsion and guidance systems; target intelligence and electronic warfare, nuclear, chemical and biological warhead agents; defensive, strategic and tactical operations; problems, mechanics, and military implications of space operations; and a survey of contemporary military thought.

AIR SCIENCE 301-302. AIR FORCE OFFICER DEVELOPMENT
Lt. Col. Glover, 3
Staff organization and functions, and skills required for effective staff work, including oral and written communication and problem solving; basic psychological and sociological principles of leadership and their application to leadership practice and problems; and an introduction to military justice.

AIR SCIENCE 401-402. GLOBAL RELATIONS
Lt. Col. Glover, Mr. Mahard, 3
An intensive study of global relations of special concern to the Air Force officer, with emphasis on international relations and geography. Includes also weather, navigation, and briefing for commissioned service.
A student interested in engineering should take a Pre-Engineering program, majoring 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 Schools of Engineering. (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 departmental chairman in his field of engineering interest.

Course Offerings

Engineering Science 111. Engineering Drafting  
Use of instruments, simple projections, freehand sketching, geometric problems, conventional signs, and tracings. Recommended also for non-engineering students, particularly those majoring in the sciences.

Engineering Science 112. Descriptive Geometry  
Conventional projection theories of drafting with problems and applications in point, line, and plane; intersection and development of surfaces. Prerequisite: 111.
Conservatory of Music

FACULTY

DALE K. MOORE, MUS. B., MUS. M.
Director of the Conservatory
Associate Professor of Music

CHORAL ORGANIZATIONS—VOICE

Graduate of University of Kansas, 1954; post-graduate work at Mozarteum, Salsburg, Austria, on United States Fulbright grant, 1954-55; graduate study, University of Kansas, 1955-56. Concerts and opera in Austria and Germany. Student of Joseph Wilkins, Reinhold Schmidt, Beulah Chiapusso, Fritz Tutenberg, Ernst Reichert, Bernhard Paumgartner. Member of faculty, University of Kansas, summer sessions, 1951-53; instructor in music and director of men's glee club, The College of Wooster, 1956-57.

KARL H. ESCHMAN, Ph.B., A.M., F.A.G.O., MUS.D. (hon.)
Jessie King Wiltsee Professor of Music (part-time)
MUSIC THEORY

Graduate of Denison University in piano and organ; graduate student, Harvard University 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 University, 1942; member of the faculty, Ohio State University and Northwestern University 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.
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.

Assistant Professor of Music and Music Education
BRASS, WOODWINDS, AND COMPOSITION

Two music degrees, one with a trumpet major, and a graduate degree (major in musicology) at Carnegie Institute of Technology. Studied with Nikolai Lopatnikoff and Roland Leich (theory and composition), Frederick Dorian (musicology), and Frederick Fenell (wind ensemble literature). Director of music, Etna High School in Pennsylvania; assistant professor of music and director of the chorus and band, Waynesburg College in Pennsylvania.

FRANK J. BELLINO, B.F.A., Mus. M.
Assistant Professor of Music
STRINGED INSTRUMENTS

Graduate of Ohio University, 1949; graduate study in music literature, Eastman School of Music, 1951, and post-graduate work in viola and violin; studied on scholarships at Colorado College, summers of 1948-52; Berkshire Music Center (Tanglewood), summer of 1947. Fulbright Research Scholar, Conservatory of Santa Cecilia, Rome, Italy, 1956-57. Studied viola and violin with Francis Tursi, Eastman School of Music; Ferenc Molnar, solo violist with San Francisco Symphony Orchestra; studied with Paul Hindemith, Roy Harris, Willi Apel, Nicholas Stonimsky, Robert Shaw, and Irvine McHose. Played with Rochester (N.Y.) Philharmonic Orchestra, 1949-52; Houston (Texas) Symphony, 1953-54; Minneapolis Symphony Orchestra, 1954-58; and Chica-
Denison University Bulletin

Dr. Mark A. Grant, University Symphony Orchestra, summers, 1956-58. Conductor of Licking County Symphony Orchestra, Newark, Ohio, since 1960.

Egbert W. Fischer, A.B., M.A.
Assistant Professor of Music
Piano


William N. Osborne, Mus. B., Mus. M.
University Organist
Instructor in Music
Organ and Music History

Graduate of University of Michigan, 1959; graduate degree from University of Michigan, 1960. Studied with Robert Noehren and Marilyn Mason; studied with Nadia Boulanger and André Marchal, American Conservatory, Fontainebleau, France; organist and choirmaster, Lutheran Student Chapel, Ann Arbor, Michigan, 1957-61.

Sarah E. Ramsey, Mus. B., Mus. M.
Instructor in Music
Piano

Graduate of Denison University, 1961; graduate degree from Northwestern University. Studied piano with Robert Miller, James York, and Louis Crowder; piano literature with Sue Haury and Louis Crowder.
Presenting Mozart's 'Mass in C Minor' in April

Mr. Hunter composing music

Mr. Bellino and Denison String Orchestra
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.)

SEMINAR IN MUSIC. Every student working toward any degree in music is required to complete eight semesters of satisfactory attendance at a Seminar in Music held once each week throughout the semester. [No more than one unexcused absence constitutes satisfactory attendance.] This seminar deals with problems of general music interest which cannot be covered in course work or private lessons. No academic credit is given. In addition, senior music majors must attend Senior Music Seminar, which also meets once a week and is designed to help prepare the student for comprehensive examinations. Failure to attend either Seminar removes the student's status as a major in Music, thereby making his Applied Music fees due and payable.

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, viola, voice, violoncello, or other field, as his major must take piano as a minor subject until he is able to play piano music, such as the following: Diller-Quaile, Third Solo Book; Concord Series for the Piano, Book III, Ed. by K. Davis; Clementi, Sonatinas, Opus 36, Nos. 1 and 2.

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, beginning at the end of the freshman year, will be given to the student to ascertain his
Mr. Moore examines student's own music composition

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. The general aim of the Conservatory of Music for the student of piano is to teach him to perform imaginatively and creatively, with interpretation based upon sound historical and theoretical knowledge. A student is expected to acquire a well-balanced repertoire and a broad acquaintance with the piano literature of all periods. A student is taught how to adapt finger, hand, wrist, and arm movements to musical thought, and how to adapt the fingers and hands to the keyboard. Every effort is made to teach the student to become an independent artist.

For junior standing: A student must be able to perform compositions, such as BACH: Three-Part Inventions, Three-Part Fugues from the Well-Tempered Klavier; HAYDN: E flat Major Sonata (1789); BEETHOVEN: Sonatas, Opus 10, No. 1 or Opus 14, No. 2; SCHUBERT: Impromptus; CHOPIN: Polonaise, Opus 40, No. 2; BRAHMS: Opus 117; and DEBUSSY: Preludes.

For senior standing: A student must be able to play compositions, such as BACH: Complete Suite or Partita; MOZART: Sonata, K. 311 or K. 332; BEETHOVEN: Sonata, Opus 28 or later; SCHUBERT: Sonata, Opus 120; CHOPIN: Etudes, one Ballade; SCHUMANN: Fantasy Pieces, Opus 12; BRAHMS: Opus 118; and DEBUSSY: Images.
Voice. The general aim of all vocal training is to try to coordinate breath pressure, phonation, and resonance in such a manner that each pupil can develop his or her voice to its utmost capacity in terms of quality, range, volume, and flexibility. 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 is 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 choirs, and to study solfeggio and elementary theory.

For junior standing: 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 study of the organ. The department reserves the right to determine whether the student has fulfilled this requirement.

For graduation with a major in Organ, a student must have developed a wide-ranging repertoire drawn from the works of Bach; such pre-Bach composers as Sweelinck, Frescobaldi, Buxtehude, and Couperin; Mendelssohn, Brahms, and Franck; and men of the 20th Century such as Hindemith and Messiaen. This repertoire shall be selected at the discretion of the instructor as best suits the needs of the student.

For junior standing: A student must have prepared several chorale preludes from the Orgelbuechlein, at least one movement of a trio sonata, and a small prelude and fugue, all by Bach; several chorale preludes by Brahms; and at least one substantial work from the 20th Century.

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For senior standing: A student must have prepared a complete trio sonata and large-scale prelude and fugue by Bach, a major work of either Mendelssohn or Franck, and a piece from the 20th Century comparable to a Hindemith sonata.

Violin, Viola, and Double Bass. A student planning to concentrate in violin, viola, or double bass will be expected to have sufficient background and technique upon entering Denison to pursue study of the more elementary standard repertoire for his particular instrument; for violin: sonatas by Corelli, by Handel, sonatinas of Schubert, Bach’s A minor Concerto; for the other instruments, compositions of comparable difficulty. Both the difficulty and the advancement of the works studied will increase during the four years of study and will include Modern, Romantic, Classical, and Baroque compositions.

Technical studies, such as the Carl Flesch Scale Studies, Rode Caprices, Fiorillo 36 Etudes, Kreutzer Studies, and various books of the Sevcik series will be an essential part of the student's work. Strict attention will be focused upon tone production, bowing technique, and intonation.

The student will be required to develop ensemble skill by playing in the Denison String Orchestra and the Licking County Symphony Orchestra in addition to working in chamber music groups, such as string quartets, piano trios, string trios, and others.

The aim is to develop the techniques of string playing which will enable the student to become a competent performer in the various areas of string performance with particular attention given to the solo literature of the instrument.

The student may be expected to be examined by the faculty on any of the repertoire which he has covered, in order to be passed to sophomore, junior, or senior standing.

At the end of the second and third years, the student shall be required to present successfully before the Conservatory faculty a composition chosen by the instructor but which the student has prepared without his instructor’s aid.

Wind Instruments. A wind instrument player will be introduced to the solo and chamber music literature for his instrument. Excerpts from orchestral literature will also be studied.
MUSICAL ORGANIZATIONS

Concert Choir. This organization of 80 mixed voices sings at several student chapels, Handel's Messiah on alternate years, the Spring Festival Concert, and on various other programs, including a home concert each year. In recent years Palestrina's Stabat Mater, Randall Thompson's The Peaceable Kingdom, Bach's Magnificat, Mendelssohn's Elijah, and Mozart's Mass in C Minor have been performed.

Ensemble. This group work in string, wind, and piano classes is offered the sufficiently advanced student.

Wind Instrument Ensemble. This is a flexible group from which is formed a small ensemble to provide music for the football games, a brass choir, and/or woodwind ensemble as need arises.

The Denison String Orchestra. This orchestra affords the student the opportunity of playing in concerts and in both music festivals. Members are also invited to play in the Licking County Symphony Orchestra.

The Chapel Choir. This group of 50 voices sings at student chapel services, appears in a home concert, and prepares several major works during the year. Non-credit.

Denison Madrigal Singers. This is a small vocal ensemble devoted primarily to the secular literature of the late 16th and early 17th centuries. Non-credit.
### Summary Of Enrollment

**First Semester, 1962-63**

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<th>States</th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
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<td>Wisconsin</td>
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Total in U.S.A. 840 711 1,551
### Countries Represented

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Grand Total

<table>
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<tbody>
<tr>
<td></td>
<td>855</td>
<td>722</td>
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**Total States Represented: 37**

**Total Foreign Countries Represented: 18**

---

### STUDENT ENROLLMENT FOR 1962-63

#### First Semester

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<tr>
<th></th>
<th>Men</th>
<th>Women</th>
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<tbody>
<tr>
<td>Seniors</td>
<td>184</td>
<td>145</td>
<td>329</td>
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<tr>
<td>Juniors</td>
<td>183</td>
<td>172</td>
<td>355</td>
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<tr>
<td>Sophomores</td>
<td>222</td>
<td>191</td>
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<tr>
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<td>266</td>
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#### Second Semester

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<tr>
<td>Seniors</td>
<td>176</td>
<td>142</td>
<td>318</td>
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<tr>
<td>Juniors</td>
<td>176</td>
<td>169</td>
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<tr>
<td>Sophomores</td>
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<td>192</td>
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<tr>
<td>Freshmen</td>
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<td>207</td>
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#### Total

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<td>813</td>
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Special

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Partial

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#### Grand Total

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<tr>
<td>Men</td>
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<td>823</td>
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<tr>
<td>Women</td>
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#### Conservatory (Music)

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<td>Music Total</td>
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Conservatory

|                  | 51             | 59              |
| Non-college      | 3              | 7               |
| Music Total      | 54             | 66              |
Personnel

THE BOARD OF TRUSTEES

OFFICERS

FRANKLIN G. SMITH, LL.D., Honoray Chairman
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BURT T. HODGES, B.S., M.A., Secretary and Treasurer

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Ex-Officio

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CLASS I—TERMS EXPIRE JUNE, 1964

*Ernest C. BRELSFORD, B.S.—Vice President (Finance). Thompson Ramo Wooldridge, Inc.
23555 Euclid Avenue, Cleveland 17, Ohio

*Sam S. Davis—President, Corrugated Container Company
640 Shoemaker Avenue, Columbus 3, Ohio

Room 1624, One Constitution Plaza, Hartford 15, Conn.

Cyrus S. Eaton, A.B., M.A., C.D.L., LL.D.—Chairman, Board of Directors, Chesapeake and Ohio R.R. Company
2000 Terminal Tower, Cleveland 13, Ohio

49 East 33rd Street, New York 16, N.Y.

*William P. Huffman, B.S.—President, Buckeye Iron and Brass Works
2750 Ridgeway Road, Dayton 9, Ohio

*Philip G. MAVON, A.B.—President, G. A. MAVON and Company
175 W. Jackson Blvd., Chicago 4, Illinois

*Norman Padelford, Ph.B., A.M., Ph.D., LL.D.—Professor, Political Science, Massachusetts Institute of Technology
6 Ravenscroft Road, Winchester, Mass.

Norman F. Smith, B.S.—President, The Osborn Manufacturing Company
11820 Edgewater Drive, Lakewood 7, Ohio

*Alumnus of Denison University
Denison University Bulletin

*Ford R. Weber, B.S.— Foster Bros., Weber and Company
241 Superior Street, Toledo 4, Ohio

CLASS II—TERMS EXPIRE JUNE, 1965
Joseph A. Anderson, B.S. in Mech. Eng.— Vice President,
General Motors Corp., and President, AC Spark Plug Division.
1300 North Dort Hwy., Flint 2, Mich.

Frederick C. Crawford, A.B., M.C.E., D.Eng., LL.D.— Chairman,
The Executive Committee of Thompson Ramo Wooldridge, Inc.
P.O. Box 3036, Cleveland 17, Ohio

Randolph Eide, A.B., LL.D., Com. D.— Retired President, Ohio Bell
Telephone Company
3232 Runson Road, Cleveland Heights 18, Ohio

Leroy E. Lattin, Retired President, General Telephone Co. of California
922 Napoli Drive, Pacific Palisades, California

*George M. Roudebush, Ph.B., LL.B.— Attorney-at-Law
Roudebush, Adrion, Brown, Corlett, and Ulrich
915 Williamson Building, Cleveland 14, Ohio

*G. Herbert Shorney, B.S.— Secretary, Hope Publishing Company
5707 West Lake Street, Chicago 44, Ill.

Games Slayter, B.S., D.Eng.— Vice President and Director of
Research, Pioneering Laboratory, Owens-Corning Fiberglas Corp.
P.O. Box 415, Granville, Ohio

*Percy L. Wiltsee, A.B.— Retired
3547 Raymar Drive, Cincinnati 8, Ohio

*John E. F. Wood, M.A., LL.B.— Attorney-at-Law,
Dewey, Ballantine, Bushby, Palmer, and Wood
Room 2900, 40 Wall Street, New York 5, N.Y.

CLASS III—TERMS EXPIRE JUNE, 1966
*Charles G. Ashbrook, Ph.B.— Chairman, Board of Directors
North American Life Insurance Company
36 South State Street, Room 1600, Chicago 3, Ill.

*Robert W. Englehart, Ph.B., LL.B.— Vice President and Director,
Hooker Chemical Corp.
2177 East Milwaukee Avenue, Detroit 11, Mich.

*William F. Hufstader, L.H.D.— Retired
9296 Perry Road, Atlas, Michigan

*Alice Mccann James (Mrs. Harold A.), A.B.—
4922 Courville Road, Toledo 12, Ohio

*George C. McConnaughey, Ph.B., LL.B., LL.D.— Attorney-at-Law
Laylin, McConnaughey, and Stradley
59 West Broad Street, Columbus 15, Ohio

*Alumnus of Denison University

208
Everett D. Reese, B.S.—Chairman, Board of Directors, City National Bank and Trust Company

20 East Broad Street, Columbus 15, Ohio

Charles Lyon Seasholes, A.B., B.D., D.D., L.H.D.—Minister, First Baptist Church

111 West Monument Avenue, Dayton 2, Ohio

*Thomas R. Shepard, A.B.—The Shepard Insurance Agency

1230 Fifth Third Bank Building, Cincinnati 2, Ohio

*Henry S. Stout, B.S.—Agent, John Hancock Life Insurance Company

1248 Laurelwood Drive, Dayton 9, Ohio

CLASS IV — ALUMNI-ELECTED TRUSTEES

*Sumner Canary, Ph.B., LL.B.—Attorney-at-Law, Arter, Hadden, Wykoff and Van Duzer

1144 Union Commerce Building, Cleveland 14, Ohio

(Term expires in 1964)

*George McCuskey, B.A., LL.B.—Vice President of Finance, Youngstown Sheet and Tube Company

7655 Market Street, Youngstown, Ohio

(Term expires in 1965)

*Mary Estey Nash (Mrs. Arthur L.) B.A.—Realtor, Westchester County, New York

7 Sheridan Road, Seven Bridges, Chappaqua, N.Y.

(Term expires in 1966)

*David A. Chambers, B.S., M.D.—Surgeon

3109 Fairfax Road, Cleveland Heights 18, Ohio

(Term expires in 1967)

*Robert F. Van Voorhis, A.B., M.B.A.—President and Secretary, Universal Supply Company

122 East Main Street, Newark, Ohio

(Term expires in 1968)

*Theodore J. Abernethy, B.S., M.D.—Chief of Staff, Washington Hospital Center

1834 Eye Street, N.W., Washington 6, D.C.

(Term expires in 1969)

TRUSTEES — EMERITI

*Frank B. Amos, A.B., 1934-1951

750 Burlington Ave., North, Lake Palms Apts.

St. Petersburg 1, Fla.

Edmund G. Burke, 1942-1959

Room 501, 188 Montague Street, Brooklyn 1, N.Y.

*Lorena Woodrow Burke (Mrs. Charles F.), Ph. B., 1937-1959

375 Riverside Drive, New York 25, N.Y.

Franklin G. Smith, LL.D., 1915-1961

Apt. 410, 13700 Shaker Blvd., Cleveland 20, Ohio

*Alumnus of Denison University

209
THE ADMINISTRATIVE STAFF

A. Blair Knapp, A.B., M.A., LL.D., L.H.D., HH.D.  
President

Parker E. Lichtenstein, B.S., M.S., Ph.D.  
Dean of the College

H. LaMarr Rice, A.B., M.A., M.A.  
Director of Development

Calvin K. Prine, B.A., LL.B.  
Associate Director

STUDENT SERVICES

Elizabeth Hartshorn, B.S., M.A., Ed.D.  
Dean of Women

Cynthia Lister, A.B., M.A.  
Assistant Dean of Women

Sally A. Lied, A.B., M.S. in Ed.  
Assistant Dean of Women

Mark W. Smith, B.A., M.A., Ph.D.  
Dean of Men

Dr. Robert E. Sinclair, B.A., M.D.  
Director of Student Health Services

Mrs. Teresa Pheneeger, R.N.  
Chief Nurse

Donald G. Tritt, B.S., Ph.D.  
Clinical Psychologist

Samuel D. Schaff, A.B., M.A., Ed.D.  
Director of Testing and Vocational Services

William Jaquith, B.A.  
Assistant Director

Burton W. Dunfield, B.S.  
Director of Admissions

Charlotte F. Weeks, A.B., M.A.  
Assistant Director

William Goodwin, B.A.  
Admissions Counselor

David O. Woodyard, B.A., B.D.  
Dean of Chapel

David A. Gibbons, A.B., B.D., S.T.M.  
Executive Secretary, Denison Christian Association

Michael G. Young, B.A.  
Intern

GENERAL ADMINISTRATION

Donald R. Fitch, Ph.B., A.M.  
Registrar

Josephine D. Krause, B.S.  
Assistant Registrar

Charles K. Henderson, B.A., M.S.  
Director of Public Information

William B. Curl, B.A.  
Assistant Director

Ruth A. Outland, A.B.  
Public Information Consultant

Lois E. Engleman, B.A., B.S. in L.S., M.S.  
Librarian

Lt. Col. Henry A. Glover, USAF,  
Officer-in-charge of AFROTC detachment

210
PALE K. MOORE, Mus. B., Mus. M.

EDWARD A. WRIGHT, B.A., M.A., D.F.A.


BEATRICE P. STEPHENS, A.B.

PERSONNEL

DALE K. MOORE, Mus. B., Mus. M.

EDWARD A. WRIGHT, B.A., M.A., D.F.A.


BEATRICE P. STEPHENS, A.B.

BUSINESS AND FINANCE

BURT T. HODGES, B.S., M.A.

ALFRED J. JOHNSON, A.B., M.B.A.

LEROSS MORRIS, B.S.,

ALLAN M. DEWEY, A.B.

RAYMOND A. MCKENNA, B.A.

STANLEY J. COX

RUTH H. ROLT-WHEELER, A.B.

LOUIS PETITO, B.A., C.P.A.

EURIE M. LOUGHRIDGE, Ph. B.

HELEN M. MORRIS

* * *

Director
Conservatory of Music

Director of Theatre

Director of Athletics

Executive Secretary, Denison Society of the Alumni

Treasurer
Business Manager

Director of Physical Plant

Purchasing Agent

Manager of Bookstore

Food Service Director

Director of Residence Hall Services

Controller

Assistant to the Controller

Assistant to the Controller
THE FACULTY EMERITI

JOHN L. BJELKE, 1925-1951
Ph.B., Denison; M.A., Columbia.

LELAND J. GORDON, 1931-63

SUE HAUNY, 1928-1959
A.B., Denison.

RICHARD H. HOWE, 1920-63
B.S., Denison; M.S., Denison.

SIDNEY JENKINS, 1920-1960
B.S., Denison; A.M., Ohio State.

JOSEPH L. KING, 1924-1962
A.B., Richmond; A.M., Columbia; Ph.D., Columbia; LL.D., Richmond.

A. COLLINS LAUNDER, 1928-1953

WALTER J. LIVINGSTON, 1911-1952
B.S., Denison; D.Sc. in Phys. Ed., Denison.

CHARLES L. MAJOR, 1931-1960
A.B., William and Mary; A.M., William and Mary.

GEORGE D. MORGAN, 1927-1962
B.S., Denison; M.S., Pittsburgh; Ph.D., Ohio State.

ERI J. SHUMAKER, 1916-1957
A.B., Denison; A.M., Denison; Ph.D., Ohio State.

ALMA B. SKINNER, 1920-1940
Ph.B., Denison; A.M., Columbia.

HENRY J. SKIPP, 1934-1951
A.B., Denison; A.M., Columbia.

BRAYTON STARK, 1927-1961

FREDERICK W. STEWART, 1924-1949
A.B., Rochester; A.M., Rochester; B.D., Colgate-Rochester.
Authors on Faculty: Seated — Drs. E. A. Wright, L. G. Crocker, Natalie M. Shepard, D. G. Dean, M. H. Hepp, and D. M. Valdes; Standing — Dr. Guy Stern, Dr. W. Preston, Jr., Dr. G. W. Chessman, P. L. Bennett, and Dr. W. M. Southgate

THE FACULTY

A. BLAIR KNAPP, 1951-
A.B., Syracuse; M.A., Syracuse; LL.D., Syracuse; L.H.D., Temple and Trinity; H.H.D., Bowling Green State; L.H.D., Reclands.

PARKER E. LICHTENSTEIN, 1949-
B.S., Massachusetts; M.S., Massachusetts; Ph.D., Indiana.

ROBERT W. ALRUTZ, 1962-
Associate Professor and Chairman, Biology
B.S., Pittsburgh; M.S., Illinois; Ph.D., Illinois.

K. DALE ARCHIBALD, 1948-
Professor of Biology
B.A., Denison; M.A., Ohio State; B.D., Colgate-Rochester; Ph.D., Ohio State.

ALBERT E. AVEY, 1963-
Visiting Professor of Philosophy
B.A., Yale; M.A., Yale; Ph.D., Yale.

TERRY ELLIS BAILEY, 1963-
Visiting Lecturer in Visual Arts (part-time)

ROBERT L. BANCROFT, 1954-
Associate Professor of Modern Languages
A.B., Univ. of Washington; A.M., Univ. of Washington; Ph.D., Columbia.
Denison University Bulletin

THEODORE H. BARCLAY, 1962—Assistant Professor of Physical Education in charge of Gregory Swimming Pool
B.S. in Ed., Ohio State; Ed.M., Kent State.

FRANCIS C. BAYLEY, 1946—Professor of Logic
A.B., Dickinson; B.D., Drew; Ph.D., Columbia.

FRANK J. BELLINO, 1958—Assistant Professor of Music

PAUL L. BENNETT, 1947—Professor of English

THAD L. BRLSLE, 1963—Assistant Professor of Government
B.A., Syracuse; M.A., Syracuse.

LOUIS F. BRAKEMAN, 1962—Assistant Professor of Government
A.B., Kalamazoo; M.A., Tufts; Ph.D., Tufts.

WILLIAM O. BRASMER, JR., 1948—Professor of Theatre Arts
B.S., Northwestern; M.A., Northwestern.

JOHN B. BROWN, 1952—Associate Professor and Chairman, Chemistry
B.S., Kentucky; Ph.D., Northwestern.

MERLE E. BROWN, 1954—Associate Professor of English
A.B., Michigan; A.M., Michigan; Ph.D., Michigan.

TOMMY R. BURKETT, 1963—Instructor in English
B.A., Rice; M.A., Rice.

MARY K. CAMPBELL, 1956—Instructor in Visual Arts

ROBERT F. CARPENTER, 1963—Assistant Professor of Physics
B.S., Union; M.S., Ohio State.

ROBERT S. CARTER, 1949—Professor of Psychology in the Department of Education
B.S., Bucknell; M.S., Bucknell; Ph.D., New York Univ.

JOSEPH T. C. CHAO, 1962—Assistant Professor of Economics
I.I.E., Catholic U. (Peiping); M.S., Southern Illinois.

G. WALLACE CHESSMAN, 1950-51; 1953—Professor, Alumni Chair of History

***ALPHA C. CHIANG, 1954—Associate Professor and Chairman, Economics
B.A., St. John's (China); M.A., Colorado; Ph.D., Columbia.

EDWARD M. COLLINS, 1948—Professor of Chemistry
B.S., Princeton; A.M., Princeton; Ph.D., Princeton.

DOMINICK P. CONSOLO, 1958—Assistant Professor of English
B.A., Miami; M.A., Miami; Ph.D., Iowa.

***On leave both semesters 1963-64

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JOHN R. CRISt, 1952-
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