

DENISON
UNIVERSITY
BULLETIN



DIRECTORY OF CORRESPONDENCE

GRANVILLE, OHIO, 43023

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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. Eastern Daylight Savings Time during summer months). The Office of Admissions is open Saturday forenoons from mid-September to Commencement.

Denison
University
Bulletin



A COLLEGE OF LIBERAL ARTS
AND SCIENCES

Founded in 1831

139th Academic Year — 1969-70

VOLUME LXIX, No. 2

AUGUST, 1969

CATALOG NUMBER

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Calendar for 1969-70

1969

JULY

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DENISON CALENDAR FOR 1969-70

FIRST SEMESTER 1969

September 24	<i>Wednesday</i>	New student days begin
September 25-26	<i>Thursday-Friday</i>	Proficiency and placement testing
September 26	<i>Friday</i>	Registration — Upperclassmen
September 27	<i>Saturday</i>	Registration — Freshmen
September 29	<i>Monday</i>	Classes begin, 8 a.m.
October 11	<i>Saturday</i>	Homecoming
October 18	<i>Saturday</i>	Dad's Day
November 17	<i>Monday</i>	Mid-semester grades due for Freshmen
November 26	<i>Wednesday</i>	Thanksgiving vacation begins, noon
December 1	<i>Monday</i>	Classes resume, 8 a.m.
December 8-19	<i>Monday-Friday</i>	Advance registration for spring semester
December 19	<i>Friday</i>	Christmas vacation begins, noon

1970

January 5	<i>Monday</i>	Classes resume, 8 a.m.
January 23	<i>Friday</i>	Classes end, 5 p.m.
January 24-25	<i>Saturday-Sunday</i>	Reading period (Underclassmen)
January 24-31	<i>Saturday-Saturday</i>	Comprehensive examination reading period (Seniors)
January 26-31	<i>Monday-Saturday</i>	Final Examinations (Seniors exempt)
January 31	<i>Saturday</i>	First semester ends, 6 p.m.
February 2-4	<i>Monday-Wednesday</i>	Comprehensive examinations (Seniors)

SECOND SEMESTER 1970

February 9	<i>Monday</i>	Registration
February 10	<i>Tuesday</i>	Classes begin, 8 a.m.
March 27	<i>Friday</i>	Spring vacation begins, noon
April 6	<i>Monday</i>	Classes resume, 8 a.m.
April 13-24	<i>Monday-Friday</i>	Advance registration for fall semester
May 2-3	<i>Saturday-Sunday</i>	May Day-Mother's Day
May 22	<i>Friday</i>	Classes end, 5 p.m.
May 23-24	<i>Saturday-Sunday</i>	Reading period
May 25-30	<i>Monday-Saturday</i>	Final examinations
May 30	<i>Saturday</i>	Second semester ends, 6 p.m.
June 7	<i>Sunday</i>	Baccalaureate service, 3 p.m.
June 8	<i>Monday</i>	Commencement, 9:30 a.m.

Calendar for 1970-71

1970

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DENISON CALENDAR FOR 1970-71

FIRST SEMESTER 1970

September 6	<i>Sunday</i>	Freshmen arrive
September 7	<i>Monday</i>	Proficiency and placement testing
September 8	<i>Tuesday</i>	Proficiency and placement testing
September 9	<i>Wednesday</i>	Registration
September 10	<i>Thursday</i>	Classes begin, 8 a.m.
October 10	<i>Saturday</i>	Homecoming
October 26	<i>Monday</i>	Midsemester grades dues for Freshmen
October 24	<i>Saturday</i>	Dad's Day
November 2-6	<i>Monday-Friday</i>	Registration for January term
November 25	<i>Wednesday</i>	Thanksgiving vacation begins, noon
November 30	<i>Monday</i>	Classes resume, 8 a.m.
December 5	<i>Monday-Saturday</i>	Advance registration for spring semester
December 11	<i>Friday</i>	Classes end, 5 p.m.
December 14-19	<i>Monday-Saturday</i>	Final examinations
December 19	<i>Saturday</i>	First semester ends, 6 p.m.

JANUARY TERM

January 4	<i>Monday</i>	January term opens, 8 a.m.
January 29	<i>Friday</i>	January term ends

SECOND SEMESTER 1971

February 1	<i>Monday</i>	Registration for second semester
February 2	<i>Tuesday</i>	Classes begin, 8 a.m.
April 2	<i>Friday</i>	Spring vacation begins, noon
April 13	<i>Tuesday</i>	Classes resume, 8 a.m.
April 15-23	<i>Thursday-Friday</i>	Advance registration for fall semester
May 1-2	<i>Saturday-Sunday</i>	May Day-Mother's Day
May 14	<i>Friday</i>	Classes end, 5 p.m.
May 17-22	<i>Monday-Saturday</i>	Final examinations
May 22	<i>Saturday</i>	Second semester ends, 6 p.m.
May 30	<i>Sunday</i>	Baccalaureate Service, 3 p.m.
May 31	<i>Monday</i>	Commencement, 9:30 a.m.



A view to the East

Statement of Objectives

Denison aspires to be a community of intellectual excellence and religious ideals.

Denison intends that its students educate themselves with the aid of a Faculty devoted to teaching and engaged in advanced scholarship and research.

In addition to providing students with a proficiency in a single discipline, Denison hopes to give them a broad knowledge of the major forms of intellectual activity and to assist them in attaining an integrated conception of their own intellectual, moral, and religious life.

Denison considers its students as men and women who are becoming free. It envisions their future as a life based upon rational choice, a firm belief in the dignity of man, and charity and compassion unlimited by racial, cultural, religious, or economic barriers.

An Introduction to Denison

HISTORICAL SKETCH

DENISON UNIVERSITY, an independently administered and financed, co-educational 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.

Since the college opened its doors in 1831, students of all races, creeds, and national origins have been eligible for admission by charter provision. Denison seeks to include in its student body persons of all backgrounds. There is no denominational test of any kind for either the student body or those appointed to the faculty and staff.

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

In 1856 the name Denison University was adopted, but the institution has remained strictly an undergraduate liberal arts college.

Since 1831 the 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, 1901-13; Clark W. Chamberlain, 1913-25; Avery A. Shaw, 1927-40; Kenneth I. Brown, 1940-50; and A. Blair Knapp, 1951-68. Joel P. Smith is Denison's 15th President.

Granville, home of the college, is a village in central Ohio, settled in 1805 by Americans emigrating from Granville, Massachusetts. 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 until 1927. The Shepardson campus is now the location for Denison's developing Fine Arts Center.

In 1917 Col. Edward A. Deeds, alumnus of 1897, donated to the college



President Joel P. Smith

280 acres of farm lands adjoining the campus. Subsequent additions to contiguous lands and other properties have increased the present holdings to 1,000 acres of which approximately 250 acres are used in the normal day-to-day operation of the college.

LOCATION

GRANVILLE 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 intersecting at the environs of the village are 16 and 37.

ACCREDITATION AND RECOGNITION

DENISON IS ACCREDITED by the North Central Association of Colleges and Secondary Schools, which was formed in 1913 and had Denison on its original list. Other agencies recognizing and approving Denison are The Ohio College Association, The Ohio State Department of Education, American Association of University Professors, American Association of University Women, Great Lakes Colleges Association, American Chemical Society, and the American Association of Colleges for Teacher Education.

Denison's premedical program is recognized by all medical schools accredited by the Association of American Medical Colleges.

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, and the Denison University Club of the Society of Sigma Xi was formed in 1957. Denison's selection as one of some 50 liberal arts colleges to receive a Ford Foundation Challenge Grant is an indication of its rank among colleges of its type. Currently the college is underway on a five-year, \$1 million science thrust-forward program with the aid of a \$325,000 grant from the Research Corporation, a New York foundation for the advancement of science, and a five-year faculty development program in the humanities supported by the Ford Foundation.

CONTROL

AS AN INDEPENDENT COLLEGE 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 nominated by the Denison Society of the Alumni and each elected by the Board for one six-year term. The President of Denison is an *ex officio* member of the Board of Trustees.



Mr. Wolfe (right) is executive assistant. On the left are Mr. Wieliczko, treasurer, standing, and Mr. Hicks, director of business and finance, seated.



RESOURCES AND FINANCES

AS RECORDED June 30, 1968, the total market value of Denison's endowment fund assets was \$17,258,000 of which \$2,727,000 represents annuity and life income funds. The stated value of Denison's land, buildings, and equipment is \$20,659,000. This, however, is a conservative figure. It is based on actual building cost. The balance sheet shows total assets of \$37,202,000 at book value. Market value as of June 30, 1968, was \$41,105,000.

Endowment has been acquired through gifts and bequests. Several modern buildings have been financed through capital-gifts campaigns. Endowment income plus gifts and grants are necessary to underwrite the educational budget to the extent of approximately \$600 per student per year. Nationwide solicitation called *The Annual Support Program*, which involves both alumni and parents of current and former students, has helped to raise these funds. This source approaches \$335,000 annually, about 50% coming from parents. No college in the nation has, as yet, claimed comparable parental support.

In the college year 1968-69 educational and general expenses, excluding auxiliary enterprises, amounted to \$4,277,000. Income from tuition and fees totaled \$3,169,000. The difference of \$1,108,000 between student income and educational and general expenses comes from endowment, gifts, and grants.

The increase in the total budget over the past ten years is an indication of Denison's growth since 1959. In that year the total budget, auxiliary enterprises included, was \$2,750,000. The total budget for 1968-69 was slightly more than \$6,700,000.

During 1968-69 \$472,000 was appropriated for scholarship assistance. The corresponding figure was \$135,000 in 1959. In addition to this aid, there were substantial amounts of student loans and a significant program of student employment. Neither of these latter two forms of student aid is included in these figures.



Dr. Alritz supervises student research at the Denison University Biological Reserve pond

SPECIAL AFFILIATIONS AND RESOURCES

The Biological Reserve, a 150-acre multioriented facility for the study of natural phenomena, was established in 1965 and dedicated in 1966. By its dedication, Denison has indicated its intent to actively support a program of teaching and research devoted to the inherently complex area of the biology of natural science. The Reserve borders the north edge of the college. Its facilities include a laboratory, an office, a weather station, and a number of experimental plots currently being developed into a variety of outdoor laboratories. The Reserve is being designed to include as many diverse habitats as the terrain and facilities permit.

The Computer Center was established in 1964 to meet the growing research needs of the faculty and students. Located in a separately air-conditioned area in Denison Fellows Hall, the center houses an IBM 1130 computing system consisting of a disk model central processor, card read-punch, an on-line printer, a card sorter, card punches, and associated unit record equipment. Courses are offered by the mathematics department in elementary programming for the general student in addition to advanced courses for majors. The center may be used by any student enrolled in a class requiring its use or by faculty or students engaged in research. The center is also being used for a variety of administrative applications.

The Great Lakes Colleges Association was organized in 1961 as a cooperative venture for the improvement of higher education in its member colleges. Denison is one of the original 12 private liberal arts colleges which comprise the GLCA. Since its inception, the GLCA has established numerous programs such as 10 different projects to provide opportunities for faculty research, study, and reinforcement of specialized scholarly pursuits; student study-abroad plans in established centers in Latin America, Japan, Scotland, and Lebanon (See *International Studies*); an Urban Semester in Philadelphia (See *Off-Campus Programs in the United States*); special programs for non-Western studies supported by the Ford Foundation and a science-teacher program supported by the Kettering Foundation; and cooperative plans being made for the pooling of both faculty and physical resources in many areas including libraries.

Other cooperating institutions in the GLCA are Antioch, Kenyon, and Oberlin colleges, the College of Wooster, and Ohio Wesleyan University, all in Ohio; DePauw University and Earlham and Wabash colleges in Indiana; and Albion, Hope, and Kalamazoo colleges in Michigan.

The Inter-University Consortium for Political Research was joined by Denison in July, 1967. There are 126 universities and colleges in the United States, Great Britain, and Canada which now participate in the Consortium. Denison is among six American undergraduate colleges which are members. The Consortium is a part of the Survey Research Center of the University of Michigan—the largest political data archive of its type in the world. Members of the Denison faculty from the Department of Political Science and related areas may receive material through the Consortium for use in class projects and individual research. Denison will have access to the results of all major presidential election surveys, historical election data, census material, and Congressional roll-call votes. Data is received in the form of cards and magnetic discs suitable for processing by the IBM 1130 computer.



Dr. Prentice conducts numerical analysis studies at Computer Center

The Ohio Foundation of Independent Colleges, Inc., was established in 1951 to raise funds cooperatively from corporations for higher education in private, liberal arts colleges in the State. Denison is one of the original 19 charter members of the OFIC. The OFIC now has 34 member colleges and each year has led the nation's 40 similar state associations in contributions and number of supporters. The total raised in Ohio in 1967-68 was \$1.6 million.

Periodicals Published at Denison include the *Journal of the Scientific Laboratories* (1885) (See Denison Scientific Association below); the *Psychological Record* (1959), quarterly journal dealing with theoretical and experimental psychology, and the *Journal of Biological Sciences* (1964), research, attitudes, and book reviews.

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.

The Alumni Office publishes a quarterly journal, *The Alumnus*, sent to graduates and former students.

The Regional Council for International Education is an association of 38 colleges and universities in the Ohio, West Virginia, and Pennsylvania area, incorporated in 1963. It is a cooperative effort to promote more effective international programs on the campuses of the member institutions. The Regional Council carries on several different programs including an annual institute for International Studies through which faculty members are able to study a particular geographic area of the world; a study center for students in Switzerland; an orientation program for newly-arrived students from abroad, and other seminars and programs in the area of International Studies.

The Denison University Research Foundation, established in 1942 by a gift from Elmer M. Jones, Class of 1903, fosters and encourages research in the arts, humanities, and sciences by awarding Research Grants to men and women of promise—primarily to members of the faculty.

Saga Food Service, Inc., assumed responsibility for the operation of Denison's food service at the beginning of 1967. The largest operator of collegiate food services in the nation, Saga handles all hiring and paying of employees, purchasing, keeping inventories, bookkeeping, and planning on a contract basis with the college.

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.



Doane Administration Building houses college offices

CAMPUS

DENISON'S CAMPUS, which consists of 1,000 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 three men's residence halls, men's dining halls, and ten 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 and eight sorority chapter houses. 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 1910, 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. The new structure was the gift of his daughters, Mrs. George W. Doane and Miss Ida Frances Doane. An addition, built in 1958, doubled the building's capacity. The library has in excess of 170,000 volumes not counting government publications, which bring the total to 360,000 volumes. Periodicals received exceed 1,200. In order that the library may best serve the total needs of the student, the general book collection in the stacks is open to every student. Study space is provided for more than 550, including 250 individual tables or carrels.

Doane Administration Building. The one-time academy building contains the college offices. It was the gift of Dr. Doane in 1894.

Life Science Building. Erected in 1941, it is used by the department of Biology. 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.

Ebaugh Laboratories and Herrick Hall. This new complex, opened for use during the 1966-67 academic year, houses the Chemistry department. The three-story laboratory block, offices, classrooms, and library are named in memory of William Clarence Ebaugh, professor of Chemistry in 1917-45, and the 292-seat auditorium section is named in memory of Clarence Luther Herrick and Charles Judson Herrick, both prominent natural scientists credited with Denison's strong development in the sciences in the 1880's through 1917.

Denison Fellows Hall. The departments of English, History, and Modern Languages are housed in this unit, opened in 1965. In addition, the Computer Center is located in this building. The unit is directly south of the Life Science Building.

Blair Knapp Hall. This building is located on the Academic Quadrangle and is named in memory of Dr. A. Blair Knapp, 14th President of Denison (1951-68). Occupancy is scheduled for this fall. Provided in this facility are classrooms and office space for the Departments of Education, Sociology, Economics, Speech, Classical Languages, Political Science, Religion, Philosophy, and Psychology.

Slayter Hall. This College Union building, the gift of Dr. and Mrs. Games Slayter, was built on the Academic Quadrangle in 1961-62. It contains the Bookstore, mail room and individual boxes for all students, lounges, bowling lanes and other recreational facilities, the college Snack Bar, offices for student



New Chemistry facilities in use at Denison are in Ebaugh Laboratories and Herrick Hall. Pictured are (top) the Chemistry library; (middle) Dr. Spessard, Wickenden professor of Chemistry, checking student project; and (bottom) one of the new laboratories.



organizations and the Dean of the Chapel, meeting rooms, and a 300-seat auditorium equipped for motion pictures.

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

Colwell House. This building houses the Alumni, Development, and Addressograph offices and the Bandersnatch, student-operated coffee house. It is located west of 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 1905 until 1950. In the 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, music classrooms and studios, and a recital hall.

Lower Campus. Other buildings in this group are Recital Hall; Burton Hall, which houses the department of Music; Aerospace Center, headquarters for the Air Force ROTC; King Hall, a residence hall; and Stone Hall apartments for faculty, staff, and students.

Bookstore has spacious quarters





Denison has modern Physical Education Center

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 other 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 major events such as commencement exercises and May Day programs.

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. In the future a Women's Center will be built.

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



Crawford Hall houses freshman women

LIVING UNITS

DENISON RECOGNIZES the experience of group living as an important part of a college education. To that end the University operates residence halls and through Saga provides food service for all women students, all freshman men, and certain upperclass 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 10 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 eight residence halls accommodating approximately 920 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; two halls built

Huffman Hall has dining facilities for all women and rooms for 77 upperclass women





The New Men's Residence Hall accommodates 265 freshmen

in 1960 — Crawford Hall, residence for 268 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. The newest women's residence, Shepardson Hall, is named in memory of Dr. Daniel Shepardson and houses 148 women. It was completed in 1968. Gilpatrick House, a small frame building, houses 16 women.

Sororities maintaining chapters at Denison are Chi Omega, Kappa Alpha Theta, Delta Delta Delta, Kappa Kappa Gamma, Alpha Phi, Alpha Omicron Pi, Delta Gamma, and Pi Beta Phi. Their chapter homes are used for social purposes only, not as residences for students.

Men's Residence Units. All freshman men live in college-operated residence halls. Curtis Hall, both West and East wings, accommodates 170 upperclass men, and Smith Hall houses 130 freshmen. A new freshman residence hall, which accommodates 265 students, opened in 1967. The new men's dining halls for freshmen and upperclass men opened in 1968.

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, the late honorary chairman of the Denison Board of Trustees.

Men's housing units on the Lower Campus are Monomoy Place and Monomoy Cottage.

Fraternities with chapters at Denison are Sigma Chi, Beta Theta Pi, Phi Gamma Delta, Kappa Sigma, Phi Delta Theta, Delta Chi Colony, Lambda Chi Alpha, Sigma Alpha Epsilon, Delta Upsilon, and Alpha Tau Omega. The 10 chapter homes house upperclassmen.



*Shepardson Hall,
shown above and at
left, is newest
women's residence*

*Smith Hall houses
upperclass men*



*Dean Woodyard is
responsible for Thursday
evening chapel services*



Activities

RELIGIOUS ACTIVITIES

THROUGH THE CHAPEL SERVICES and the several religious organizations on the campus, students and faculty may actively share religious life. Academically, Denison provides instruction in religion and/or philosophy through regular course offerings in the departments of religion and philosophy on an elective basis.

The college provides a 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. Attendance at these services is voluntary.

The Denison Christian Association, under the direction of the Executive Secretary, sponsors religious activities. Included are vesper services; special programs for the discussion of ethical and religious problems; many community service programs; field trips to study social problems; 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.

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.

STUDENT PUBLICATIONS

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.

A limited number of students also submit papers to the *Journal of the Scientific Laboratories*, the *Journal of Biological Sciences*, and other publications of an academic nature.

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.

Opportunities to hear and to participate in the production of good music are provided by concerts by students, faculty, and guest artists; and Denison choral and instrumental groups. Musicians of national reputation are brought to the campus in concerts arranged by the Granville Festival Association in co-operation with the college.

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

Dramatic productions of professional excellence are presented by the department of theatre arts.

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.

WDUB is the student-operated radio station, which has its studios in Blair Knapp Hall. It is supported through the Denison Campus Government Association.

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.*



Leopard from West Africa is part of Denison's permanent Art Collection

MUSICAL ORGANIZATIONS

Concert Choir. This organization of 140 mixed voices presents a major choral work each semester with orchestra and guest soloists. Recent performances have included Bach's *Magnificat*, Brahms' *Requiem*, Bruckner's *Mass in F Minor*, Mendelssohn's *Elijah*, Bloch's *Sacred Service*, Beethoven's *Mass in C Major*, and Vaughan Williams' *Hodie*.

Band. The band provides music for the football games, the May Day ceremony, and presents a spring concert.

The Licking County Symphony Orchestra. A college-community orchestra which gives the student the opportunity of three public concerts per year. Members may be invited to participate in the orchestras which play for the choral concerts and opera workshop productions.

The Chapel Choir. This group of 50 voices sings at student chapel services and prepares several major works during the year.

Denison Singers. This small chamber ensemble presents a large variety of appropriate literature throughout the year and makes a spring vacation tour.

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 11 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 and with the men Head Residents.

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*



Communion Service in Swasey Chapel

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 8 sororities in developing an adequate social program. All of these organizations maintain chapter houses on or near the campus, generously sharing their facilities with the students, faculty, and townspeople.

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 and an intercollegiate Bowling Club.

In its intercollegiate program for both men and women, the University seeks to compete with institutions of similar size and similar educational and athletic standards.

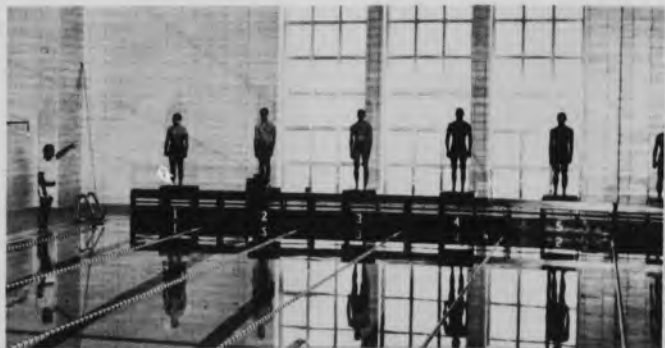
Denison is a member in good standing of the National Collegiate Athletic Association and the Ohio Athletic Conference.

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.

Denison women have instruction and faculty supervision for intercollegiate teams in basketball, bowling, golf, field hockey, lacrosse, swimming (both

*Varsity swimmers
at practice*



speed team and synchronized club), and tennis. In addition, women participate in intramurals in seasonal activities.

Facilities for women include separate playing fields for archery, hockey, lacrosse, soccer-speedball, six tennis courts, riding ring and nature trails, and an unusually fine area within the Biological Reserve for Outdoor Education activities. Indoor facilities include Lamson Lodge, Cleveland Hall, and joint use with the men of the Gregory Swimming Pool.

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.



Quarterback sets up TD



Big Red produces batting champion



Cagers compete in OC

first in broad jump



Lacrosse team wins Midwest title



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 period preceding registration.

COUNSELING STAFF

THE COUNSELING STAFF includes the Deans of Students, the Director of Graduate School Counseling, the Director of the Psychological Clinic, the College Physicians, specialists in religion, the Director of Student Employment and Placement, faculty counselors, departmental chairmen, two Assistant Deans of Women, senior head residents for men, and student 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.

Student Advisers. In the residence halls student advisers, a selected group of upperclass students, help freshmen to understand many aspects of college life. Two Assistant Deans of Women serve as residence counselors for women, one in the freshman women's area and the other in the upperclass women's area. The senior head residents in each hall for men also advise students.

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.

Graduate School Counseling. Since a majority of the students seek additional training in professional and graduate schools after completing their requirements for a bachelor's degree from Denison, a faculty member has been selected to give guidance in addition to that of the departmental adviser. His help includes personal counseling on educational and vocational problems; information about advanced programs of study in graduate and professional schools, and the opportunities for scholarships, fellowships, and assistantships.



Dean Smith and senior head residents confer

MIDDLE PHOTO — Student government president visits with senior leaders

BOTTOM PHOTOS — Dean Hartshorn discusses women's rules with student representatives, and A. W. Davison, Jr., is director of vocational services and institutional research



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 at Denison. It is staffed by the deans of students (Dean of Women and Dean of Men), the Director of the Psychological Clinic, the Director of Graduate School Counseling, and the Director of Student Employment and Placement. In addition to providing specialized counseling for individuals the Office of Student Personnel coordinates many student activities. It keeps for each student a cumulative personnel record; it helps each student to discover his own interests and aptitudes so that he may wisely plan his entire college program.

VOCATIONAL SERVICES

Student Employment. On-campus employment is available to a limited number of students wishing to earn a part of their college expenses. Students on scholarships are given the initial opportunity to fill the jobs available each year. A student seeking employment at Denison should apply to the Office of Vocational Services.

Placement. Students seeking employment in business, industry, or government service upon graduation may make arrangements through the Office of Vocational Services to interview college recruiters. A reference file for each student also is maintained in the office upon request.

As a participant in the GRAD computerized placement service operated by the College Placement Council, the office can serve effectively alumni seeking employment.

Vocational Counseling. Vocational interest test administration and counseling relative to career choice are major services offered the student by the office.

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. Three Physicians comprise the staff of Whisler Memorial Hospital. Five registered nurses assist in maintaining an up-to-date clinic where prompt medical attention is available. The Physicians 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.



Dr. Bayley (left) serves as military adviser, and Dean Rice (right) is adviser to black students

MILITARY ADVISER

THE MILITARY ADVISER counsels a student concerning his obligations under Selective Service and makes the official statement (SSS 109—*Student Certificate*) concerning the student's enrollment at Denison. In order to make the official statement the Military Adviser must be given, by the student, his full name, home address, selective service number, and number and post office address of the student's Selective Service Board. The Military Adviser also makes available information concerning opportunities for securing a commission in the Army, Air Force, Coast Guard, Marine Corps, and Navy. He serves in a liaison capacity between Denison and its Air Force ROTC Unit.

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 director of psychological clinic

Scholarships and Financial Assistance

DENISON UNIVERSITY recognizes that every student, accepted for admission, is considered to be potentially eligible for a scholarship. Qualifications considered for the award of a scholarship include academic achievement and promise as indicated by class standing and College Entrance Examination Board scores, citizenship, and leadership in extracurricular activities.

Financial need, in addition to the qualifications mentioned above, is a vital factor in awarding scholarships and financial assistance. Denison participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit the *Parents' Confidential Statement* (PCS) form to the College Scholarship Service, designating Denison as one of the recipients, by December 15 for students requesting Early Consideration (see *Admission*) and by March 1 for all other students. The PCS form may be obtained from a secondary school.

For a student already enrolled at Denison the *Parents' Confidential Statement* will be furnished by the scholarships and financial aids officer.

Tuition Scholarships. These scholarships are equal to Denison's tuition. For entering freshmen they are for four years, provided the student maintains a 3.25 cumulative grade-point average at the end of each academic year.

Honor Scholarships. These scholarships are of varying amounts. For entering freshmen they are for four years, provided the student maintains a 3.0 cumulative grade-point average at the end of each academic year.

Founders' Scholarships. These scholarships are of varying amounts. For entering freshmen they are for four years, provided the student maintains a 2.75 cumulative grade-point average at the end of each academic year.

Grants-in-aid. These amounts vary. They are awarded for one year but may be considered for renewal for the succeeding year by the Committee on Scholarships upon completion of a *Parents' Confidential Statement* sent to the student by the Chairman of the Scholarship Committee. The Committee reserves the right to vary the amount of the

grant-in-aid contingent upon the financial need of the student.

The renewal of a *grant-in-aid* in any amount, in addition to the conditions set forth above, 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 a 2.6 average in the junior year for a grant in the senior year.

In every year, except the freshman year, all scholarships will be terminated for the second semester if the academic average, not cumulative, for the first semester is below 2.0.

Exceptions may be made by the Scholarship Committee in cases involving significant contributions to Denison or extenuating circumstances.

Special consideration and financial assistance are given to Negro students accepted for admission.

Educational Opportunity Grants (EOG) from the Department of Health, Education, and Welfare are awarded based on the guidelines as set forth by the Higher Education Act of 1965 Title IV, Part A.

SPECIAL SCHOLARSHIPS

George F. Baker Scholarships. Denison is one of a select group of private liberal arts colleges, chosen by the George F. Baker Trust of New York City to offer scholarships to young men with exceptional promise. The Baker Trust makes it possible for Denison to award three or four scholarships annually to entering freshmen in order to help develop their potential. Baker Scholars must be young men with outstanding qualities of character, responsibility, and motivation; natural talent for leadership; high academic qualifications; and a need for financial assistance. Selection on the basis of these qualifications is made by the Denison Committee on Scholarships, and the amount of the stipend, renewable annually for four years, is determined in each case by the financial need of the recipient.

Sons and Daughters of Baptist Ministers or Missionaries. These are four-year scholarships with an annual stipend of \$500. They are awarded in recognition of Denison's heritage from the Baptist denomination throughout the history of the institution.

General Motors. One four-year full-expense scholarship is awarded each year by the Denison Committee on Scholarships in recognition of outstanding ability, accomplishment, and academic promise. These scholarships are made available to Denison by the General Motors Corporation, Detroit, Michigan. They carry a stipend equal to the difference between the amount the candidate and his family can pay and the normal cost of the college year. The awards are continued over four years dependent upon a high standard of performance.

The Grand Lodge of Free and Accepted Masons of Ohio. This scholarship is for one year but may be renewed by the Committee on Scholarships. The annual stipend is \$400.

Granville Centennial Scholarships. These are four-year scholarships with an annual stipend of \$150. It is awarded to the highest ranking student in the graduating class of the Granville High School, exclusive of the sons and daughters of Denison University's faculty and staff members. This scholarship was established in recognition of contributions made by residents of Granville



Using a library listening room

to the Centennial Endowment Fund in 1931.

The Hawes Key Club. These scholarships are for members of the Key Club of Licking County, Ohio, or, in the absence of such members, members of some other Key Club. The recipients must have financial need to be determined by the completion of the *Parents' Confidential Statement*.

The William E. Miller and Annie Scheidler Miller Memorial. This scholarship is for the freshman year only and is to be awarded to a graduate of the Newark, Ohio, High School. Preference is to be given to a man but it may be awarded to a woman.

LaVerne Noyes Scholarship. These scholarships are for students who need financial assistance and who are blood descendants of those who served in the Army or the Navy of the United States in World War I. Applications are available from the Admissions Office. A *Parents' Confidential Statement* must also be completed.

Procter and Gamble. A program established in 1955 by the trustees of the Procter and Gamble Fund makes available annual scholarships for entering freshmen, renewable annually throughout the four years on the basis of successful undergraduate performance and continuing financial need. The Denison Committee on Scholarships will administer the scholarships, selecting the recipients from all eligible candidates on the basis of its own standards of academic achievement and on the basis of the recipient's financial need determining the amount of the annual stipend. The student may select his or her own course of study.

Spencer Memorial. This is a four-year scholarship and is to be awarded to a graduate of the Newark, Ohio, High School.

United States Air Force. See Aerospace Studies.

SCHOLARSHIPS FOR ENROLLED STUDENTS

HONOR SCHOLARSHIPS

Kenneth I. Brown. This scholarship, established by the Danforth Foundation, Inc., Saint Louis, Missouri, 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 a college teaching career. The annual stipend is not less than \$1,200 nor more than \$1,500. Selection is based on high scholastic ability, character, and personal qualifications.

Walter Leroy Flory. This scholarship is for a senior man 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.

Phi Beta Kappa Golden Anniversary. This scholarship was established by the Theta of Ohio Chapter of Phi Beta Kappa on the 50th anniversary of its installation at Denison University. Students of outstanding scholarship within the fraternity are designated by officers of the chapter.

Ebenezer Thresher. This scholarship, one for a student in each of the four classes, is awarded to a man by the Committee on Scholarships. Qualifications for selection include an outstanding academic record, promise of usefulness, and unquestionable moral character. Awarded at the end of the first semester, the scholarship is renewed for each succeeding semester provided the student maintains a 3.0 cumulative grade-point average.

Academic Quadrangle showing Fellows Hall, Doane Library, and Life Science Building.



DEPARTMENTAL SCHOLARSHIPS

Gertrude Carhartt Brelsford. These scholarships are awarded upon recommendation of the Department of Music.

Mary Hartwell Catherwood. These scholarships are awarded upon recommendation of the Department of English to a junior or senior definitely planning a career in writing.

Willis A. and Frances W. Chamberlin. These scholarships are awarded to students of high scholarship majoring in the humanities.

George K. Goulding Memorial. These scholarships are awarded upon recommendation of the Department of Music.

Lubrizol. This scholarship, supported by the Lubrizol Foundation, Cleveland, Ohio, is awarded upon the recommendation of the Department of Chemistry to a student majoring in that department.

E. Clark and Irma H. Morrow. These scholarships are awarded, upon recommendation of the donors, Mr. and Mrs. Morrow, to juniors or seniors 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, prior to June 1, an essay on the subject, *My Philosophy of Law*.

Peoples State Bank of Granville, Ohio. These scholarships are awarded, upon recommendation of the Department of Economics, to students majoring in that department.

Presser Music Foundation. An annual stipend of \$400 is made available by the Presser Music Foundation to students planning to make their living by music. Selection of the recipients is made upon recommendation of the Department of Music.

Juliet Barker Sarett. These scholarships are awarded to students who have shown general excellence in their academic work, particularly in English and in Theatre Arts. They are awarded at the end of the junior year upon recommendation of the respective departments.

Cora Whitcomb Shepardson. These scholarships are awarded, upon recommendation of the Department of Visual Arts, to students who have shown proficiency in courses in that department.

Eliza Smart Shepardson. These scholarships are awarded, upon recommendation of the Department of Music, to worthy students enrolled in that department.

Francis Wayland Shepardson. These scholarships are awarded, upon recommendation of the Department of History, to students who have shown proficiency in American history.

Stephen D. Tuttle Memorial. This scholarship is awarded to a worthy music student upon recommendation of the Department of Music.

Edward A. Wright. These scholarships are awarded, upon recommendation of the Department of Theatre Arts, to students who have made a significant contribution to that department.



Phi Beta Kappa gives rotating scholarship cups and sophomore achievement award annually

GRADUATE HONOR SCHOLARSHIPS

GRADUATE SCHOLARSHIPS AND FELLOWSHIPS are handled through the Office of the Graduate School Counselor, Doane 205. Students desiring information on graduate scholarships and fellowships should see the Graduate School Counselor.



*Dr. Schaff advises on
graduate fellowships*

DENISON 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 school advanced study. Selection is based on intellectual ability, leadership qualities, and financial need.

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 Uni-

versity and is open to a graduate of Denison for one year.

The Denison University Scholarships for The University of Chicago Law School, Vanderbilt University School of Law and Washington University Law School. Each school awards a full tuition scholarship for one year, renewable upon satisfactory completion of a year's work, to a student nominated by Denison, provided he meets all the requirements for admission.

OTHER NATIONAL AND INTERNATIONAL SCHOLARSHIP PROGRAMS

Danforth Fellowships. These are awarded on the basis of intelligence, scholarship, creativity, and teaching potentialities to men and women who are planning to study for a Ph.D. and to prepare for a professional career in college teaching.

Woodrow Wilson Fellowships. These are awarded to promising students of high scholarship and personal qualifications who want to enter graduate work in order to prepare for college teaching.

The Fulbright Scholarships. These scholarships of the United States Education Exchange program are designed to promote better understanding between the people of the United States and the people of other countries. It is necessary that an applicant have

high personal and intellectual qualities plus an adequate knowledge of the language of the country.

The Marshall Scholarships. These highly competitive scholarships enable Americans to study for degrees in many disciplines at British universities.

The Rhodes Scholarships. These are tenable for three years at Oxford University in England. Character, scholarship, athletics, and leadership in extracurricular activities are the basis on which scholars are named.

INFORMATION on fellowships offered by other graduate schools, as well as national and international graduate fellowship programs, is available in the Office of the Graduate School Counselor.

ENDOWED FUNDS FOR SCHOLARSHIPS
AND FINANCIAL ASSISTANCE

(Amounts shown are invested principal)

HONOR SCHOLARSHIP FUNDS

Kenneth I. Brown Fund (\$30,000)
Walter L. Flory Fund (\$2,500)
Phi Beta Kappa Fund (\$2,040)
Ebenezer Thresher Fund (\$10,000)

DEPARTMENTAL SCHOLARSHIP FUNDS

Gertrude Carhartt Brelsford Memorial Fund—Music (\$3,000)
Mary Hartwell Catherwood Fund—English (\$2,000)
Willis A. and Frances W. Chamberlin Fund—Humanities (\$6,805)
The Hugh Galt Research Fund—Chemistry (\$7,000)
George K. Goulding Memorial Fund—Music (\$15,000)
The "Ace" Morgan Memorial Fund—Theatre Arts (\$8,000)
E. Clark and Irma H. Morrow Fund—Pre-Law (\$5,033)
The Peoples State Bank of Granville Fund—Economics (\$16,500)
Juliet Barker Sarett Fund—English and Theatre Arts (\$10,000)
Cora Whitcomb Shepardson Fund—Art (\$5,000)
Eliza Smart Shepardson Fund—Music (\$2,700)
Francis Wayland Shepardson Fund—History (\$5,150)
Gayle Ingraham Smith Fund—Music (\$10,000)
Stephen Davidson Tuttle Fund—Music (\$1,355)
Edward A. Wright Fund—Theatre Arts (\$27,935)

FOR MEN AND WOMEN

The Robert C. and Carol G. Alexander Fund (\$167)
The American Baptist Convention Fund (\$88,437)
The Eugene J. and Margaret Gooch Barney Scholarship Fund (\$19,553)
The Wm. T. and Maude Firth Bawden Scholarship Fund (\$26,532)
The Anna B. Beattie Scholarship Fund (\$25,592)
The Blanche D. Beattie Scholarship Fund (\$18,570)
The John W. Beattie Scholarship Fund (\$444,548)
The Frederick P. and Mary T. Beaver Scholarship Fund (\$82,843)
The Mary F. and Fred W. Benjamin Memorial Scholarship Fund (\$1,000)
The Ernest C. and Marie Tapper Brelsford Scholarship Funds (\$1,000)
The Millard Brelsford Memorial Scholarship Fund (\$3,551)
The Samuel B. Brierly Scholarship Fund (\$317,366)
The Lester C. and Nell S. Bush Fund (\$10,654)
The Wells A. and Cynthia Aldrich Chamberlain Scholarship Fund (\$5,000)
The Class of 1913 Scholarship Fund (\$1,000)

Scholarships and Financial Assistance

The Class of 1917 War Memorial Scholarship Fund (\$3,415)
The Class of 1929 Scholarship Fund (\$6,750)
The Edward Taylor Clissold Memorial Scholarship Fund (\$3,350)
The Blanche Lemert Copeland Scholarship Fund (\$21,942)
The Carolyn W. Deckman Fund (\$2,244)
The Denison Memorial Scholarship Fund (\$9,600)
The John H. Doyle Scholarship Fund (\$2,500)
The Elizabeth S. Ewart Scholarship Fund (\$2,506)
The Frank C. Ewart Memorial Scholarship Fund (\$4,200)
The Lelia Milward Firth Scholarship Fund (\$1,000)
The Ray C. Fish Fund (\$120,750)
The Dora A. Forsythe Scholarship Fund (\$9,738)
The Clarence L. Fox Memorial Scholarship Fund (\$1,231)
The Robert K. Fox Fund (\$5,373)
The General Scholarship Fund (\$8,543)
The David E. Green Memorial Scholarship Fund (\$3,637)
The G. O. Griswold Scholarship Fund (\$5,000)
The David Tin Hla Memorial Scholarship Fund (\$4,565)
The Masuo S. and Kiyo Hoshide Scholarship Fund (\$1,115)
The H. Rhodes Hundley Memorial Scholarship Fund (\$7,300)
The Emory W. Hunt Scholarship Fund (\$8,358)
The A. Blair Knapp Memorial Scholarship Fund (\$22,095)
The Charles T. Lewis Scholarship Fund (\$5,000)
The Matthews Scholarship Fund (\$4,063)
The Blanche McCoy-Humphrey Scholarship Fund (\$2,500)
The Minnie Farnier Miller Scholarship Fund (\$750)
The Leslie B. Moss Scholarship Fund (\$25,641)
The N. W. Neptune Scholarship Fund (\$200)
The LaVerne Noyes Scholarship Fund (\$45,508)
The Frank C. Onstott Scholarship Fund (\$16,691)
The Reader's Digest Foundation Scholarship Fund (\$10,000)
The C. E. Ronneberg Fund (\$1,431)
The George M. and Harriette McCann Roudebush Scholarship Fund (\$38,769)
The Edson Rupp Memorial Fund (\$400)
The Francis W. Shepardson Memorial Fund (\$12,386)
The George H. Shorney Scholarship Fund (\$8,000)
The Eri J. Shumaker Memorial Scholarship Fund (\$1,664)
The Franklin G. Smith Scholarship Fund (\$27,000)
The Amanda Sperry Scholarship Fund (\$1,000)
The Herbert F. Stilwell Scholarship Fund (\$45,030)
The Chaplain Thomas B. Van Horne Memorial Scholarship Fund (\$2,720)
The Daniel Van Voorhis Scholarship Fund (\$500)
The Charles G. Waters Scholarship Fund (\$17,496)



Blair Knapp Hall, the new classroom and office building on the Academic Quadrangle across from Doane Administration Building, houses nine departments

- The Charles Gardner Waters and Clara Ferris Waters Scholarship Fund (\$30,037)
- The Earl F. and Irene L. Wells Fund (\$4,838)
- The Welsh Hills Prices Scholarship Fund (\$2,000)
- The Whisler Family Scholarship Fund (\$53,696)
- The Katherine Gear Wightman Scholarship Fund (\$500)
- The Russel H. Williams Memorial Scholarship Fund (\$2,930)
- The W. C. Woodyard Scholarship Fund (\$6,325)

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 (\$3,122)
- 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)

Scholarships and Financial Assistance

FOR WOMEN

- The Betty Ann Robinson Arbuckle Scholarship Fund (\$5,000)
- 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 Margaret Richards Memorial Fund (\$7,642)
- 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 (\$31,718)
- The Joshua and Gwennie Jones Fund (\$1,357)
- The Mary K. Monroe Fund (\$30,000)
- The David Thatcher Fund (\$1,500)

*Mr. Prine (right) and Mr. Goodwin direct
Denison's Development Office*



NEW SCHOLARSHIPS ESTABLISHED

The Eugene J. and Margaret Gooch Barney Scholarship Fund. This fund of \$19,553 shall be used to provide general scholarships for students at Denison.

The Gayle Ingraham Smith Scholarship Fund (Music). This scholarship fund of \$10,000 is established as a memorial to Thomas J. Smith, M.D., Marie Olivia Ingraham Smith, and Stella Irene Ingraham Smith. The income from this fund is to be used for students majoring in violin or piano.

LOAN FUNDS AVAILABLE

LOANS are available to needy and worthy students. 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 chairman of the Scholarship and Financial Aid Committee.

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 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*.

SCHOLARSHIP FUNDS INCREASED

Since the 1968-69 Catalog was published these funds have been increased by the amounts indicated:

The Robert C. and Carol G. Alexander Scholarship Fund	\$ 167
The American Baptist Convention Fund	745
The John W. Beattie Scholarship Fund	846
The Millard Brelsford Memorial Scholarship Fund	2,001
The Samuel B. Brierly Scholarship Fund	99
Willis A. and Frances W. Chamberlin Fund—Humanities	143
The Denison Memorial Scholarship Fund	5,245
The Frank C. Ewart Memorial Scholarship Fund	100
The Hugh Galt Research Fund—Chemistry	1,000
The General Scholarship Fund	5,236
The Masuo S. and Kiyo Hoshide Scholarship Fund	60
The H. Rhodes Hundley Memorial Scholarship Fund	800
The A. Blair Knapp Memorial Scholarship Fund	5,408
The People's State Bank of Granville Scholarship Fund	2,000
The Reader's Digest Foundation Scholarship Fund	2,500
The George M. and Harriette McCann Roudebush Scholarship Fund	2,722
The Francis W. Shepardson Memorial Fund	2,280
The George H. Shorney Scholarship Fund	500
The Eri J. Shumaker Memorial Scholarship Fund	100
The Franklin G. Smith Scholarship Fund	1,000
The Earl F. and Irene L. Wells Fund	820
The Russel H. Williams Memorial Scholarship Fund	250
The Edward A. Wright Fund—Theatre Arts	365
Total Increases	<hr/> \$34,387

Mr. Marovich is business manager





*Slayter Hall, the College Union,
has spacious lounges (above-left),
private mail boxes for all students
(above-right), the college Book-
store (middle), and Snack Bar
(below)*





Dean Parker E. Lichtenstein

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.

Effective with the Class of 1972, the grade-point average may be computed on the basis of all four years work at Denison or the last three years, whichever is higher. However, under no circumstances will a student be graduated with Honors if he has less than a 3.0 cumulative grade-point average for his entire program taken at Denison.

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.

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; Alpha Kappa Delta, sociology; Arnold Air Society, military; Crossed Keys, junior women's service; Delta Phi Alpha, German language; Delta Sigma Rho-Tau Kappa Alpha, forensics; Eta Sigma Phi, classical language; Kappa Delta Pi, educational; Mortar Board, senior women's leadership; Omicron Delta Epsilon, economics; Omicron Delta Kappa, senior men's leadership; 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 Sigma Pi Sigma, physics.

Local Honorary Organizations. Other groups represented at Denison, all local in nature, include Alpha Rho Tau, art; Chemical Society; D Association, athletic; Dance Club, modern dance; Franco-Calliopean Society, creative writing; History Honor Society; Lambda Mu, women's music; and Masquers and University Players, theatre.

National Service Fraternity. Denison's chapter of Alpha Phi Omega was installed in 1965.

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.)

American Commons Club Golden Anniversary Award. The income from this fund of \$1,050 established in 1967 goes to the male graduating senior who is judged to have done most to promote harmonious relationships among fraternities.

The Crocker Public Speaking Awards. The income from this fund established by a gift of \$3,000 from Dr. Lionel G. Crocker is

to be used for prizes in public speaking contests.

The Thomas Hamilton Crocker Award. The income from this fund provides an annual award to the student or students excelling in the oral interpretation of literature as a function of the Department of Speech. This award was established by a gift of \$1,000 as a memorial to their son by Lionel G. Crocker.

er, professor-emeritus of speech at Denison University, and Mrs. Geraldine Hamilton Crocker, M.D.

The Ebaugh Award. The income from this fund of \$1,207 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, professor of chemistry (1917-44).

The Fannie Judson Farrar Memorial Music Award. Gifts from an anonymous donor have provided this fund of \$1,378. The income is to be awarded annually by the music faculty to the most promising and worthy student in piano. Miss Farrar taught music (1924-37).

The Sam Gelfer Memorial Music Award. The income from this fund of \$2,678 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 (on the Denison faculty 1925-60) and by gifts from former students.

The John L. Gilpatrick Mathematics Award. The income from this fund of \$1,117 in memory of the professor 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. Former students and friends of Professor Gordon, professor of Economics in 1931-63, have contributed \$3,825 to endow this prize. The annual income from the fund is awarded each year to one or two majors who prepare the best Honors papers involving original research dealing with a significant problem in Economics. Papers are judged by persons outside of the department. The outside judges shall also determine the amounts to be awarded when two or more papers are submitted for con-

sideration. If in any year no award is made the income shall be added to the principal.

The Chosaburo Kato Mathematics Award. This fund of \$1,000 was established in 1965 by Dr. and Mrs. Kato. The income is to be awarded to a junior for excellence in Mathematics.

The Herman L. Klein Memorial Debate Fund. This fund of nearly \$5,000 was established by the family of the late Herman L. Klein of the Class of 1933. The income from the fund will be used to provide annual awards in debate. Awards will go to (1) the most skillful first-year debater, (2) the debater contributing the most to the program during the year, (3) the most improved debater, and (4) the best debater. Provided for by the fund also is a permanent plaque to be placed in the debating room and appropriately engraved.

The Blair Knapp Fund. This fund was established by contributions from members of the Class of 1968 in memory of A. Blair Knapp, President of Denison (1951-68). Income from the fund will be awarded annually to that junior who has shown academic competence and who aspires to dedicate his life to the field of liberal arts education and/or college administration. The recipient will be determined by the Dean of the College, Deans of Students, President of DCGA, and President of the junior class.

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 Businessmen's Association and the President of Denison University. This award was established by Harry W. Amos, Class of 1899, and is maintained by his bequest of \$1,800.

The John P. Levis, Jr., Award. The income from this fund of \$962 is awarded to the highest-ranking senior graduating as a Speech major on the basis of his cumulative grade-point average for the three semesters immediately preceding his final semester.

The Annie Mary MacNeill Poetry Prizes. Prizes are awarded to the student or students with high standing in English 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. An endowed fund of \$2,000 provides these prizes. Miss MacNeill taught English (1921-45).

Mildred Klinger Sanders Prize. Income from this fund of \$1,000 established in 1967 will be awarded annually for outstanding performance in Chemistry by an upperclass major.

The James B. Sayers, Jr., Memorial Award. This fund of \$4,248 was established in memory of a member of the Class of 1965. The income is to be awarded to the senior letterman attaining the highest academic standing based on the seven semesters preceding his final semester at Denison.

The Daniel Shepardson Memorial Award. The income from this fund of \$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 Judge Clyde S. Shumaker Trophy. This trophy for excellence in public speaking was established by Judge Clyde S. Shumaker of the Class of 1930 in 1957 and endowed by a \$1,440 gift from an anonymous donor. Selection of the recipient is made by the Department of Speech.

The Sperry and Hutchinson Economics Award. This award was established by gifts of \$3,750 from the Sperry and Hutchinson Company. 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.

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

The Forbes B. Wiley Memorial Mathematics Awards. Annual awards provided by the income from this fund are given to members of the freshman and sophomore classes

recommended by the Department of Mathematics for excellence in that subject. This fund of \$2,946 was 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 \$1,300 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 Prize. 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 of \$5,000 by his son, J. Ernest Woodland of the Class of 1891.

AFROTC AWARDS

Distinguished Air Force ROTC Graduates. Cadets who, during Air Force ROTC training, have distinguished themselves academically, and have demonstrated outstanding qualities of leadership, will be designated Distinguished Graduates and will, upon application and selection, be offered Regular Air Force Commissions.

The Class of 1954 Scholastic Trophy (Military). The graduating AFROTC cadet with the highest over-all cumulative four-year grade-point average will have his name inscribed on this trophy which is maintained on permanent display at the Department of Aerospace Studies.

Other AFROTC Awards. AFROTC cadets who are outstanding in the basic and advanced courses will receive various military awards of merit and medals by the Air Force Association, *Air Force Times*, *Chicago Tribune*, General Dynamics Corporation, Reserve Officers' Association, and Sons of the American Revolution.

NON-ENDOWED PRIZES AND AWARDS

The American Chemical Society Award. This cash award and journal subscription is given by the Columbus section of the ACS to the outstanding student in Chemistry chosen by the department. It was first awarded in 1966.

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 (1916-47), is now maintained by his son, David A. Chambers, M.D., Class of 1923.

The Monetta Chao Prize in Chinese Philosophy. This book award is given to the student judged by the course instructor as having done the best work in Chinese Philosophy. It was established in memory of a staff member of the first Institute in Chinese Civilization held at Tunghai University, Taiwan, in 1962.

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, Political Science, History, Sociology, or a transde-

AFROTC Color Guard



partmental 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.

Department of English Prizes in Fiction. 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.

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

The Hamilton Watch Award. The gift of an engraved electric watch is made to the graduating senior candidate for the Bachelor of Science degree who has made the most successfully combined proficiency in his major field of study with achievements—either academic or extracurricular or both—in the social sciences and humanities. Selection is made by the Dean of the College.

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



CORRECTION!!!

The previous document(s) may
have been filmed incorrectly...

Reshoot follows

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Academic Honors and Prizes

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The Daniel Shepardson Memorial Award. The income from this fund of \$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 Judge Clyde S. Shumaker Trophy. This trophy for excellence in public speaking was established by Judge Clyde S. Shumaker of the Class of 1930 in 1957 and endowed by a \$1,440 gift from an anonymous donor. Selection of the recipient is made by the Department of Speech.

The Sperry and Hutchinson Economics Award. This award was established by gifts of \$3,750 from the Sperry and Hutchinson Company. 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.

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

The Forbes B. Wiley Memorial Mathematics Awards. Annual awards provided by the income from this fund are given to members of the freshman and sophomore classes

recommended by the Department of Mathematics for excellence in that subject. This fund of \$2,946 was 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 \$1,300 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 Prize. 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 of \$5,000 by his son, J. Ernest Woodland of the Class of 1891.

AFROTC AWARDS

Distinguished Air Force ROTC Graduates. Cadets who, during Air Force ROTC training, have distinguished themselves academically, and have demonstrated outstanding qualities of leadership, will be designated Distinguished Graduates and will, upon application and selection, be offered Regular Air Force Commissions.

The Class of 1954 Scholastic Trophy (Military). The graduating AFROTC cadet with the highest over-all cumulative four-year grade-point average will have his name inscribed on this trophy which is maintained on permanent display at the Department of Aerospace Studies.

Other AFROTC Awards. AFROTC cadets who are outstanding in the basic and advanced courses will receive various military awards of merit and medals by the Air Force Association, *Air Force Times*, *Chicago Tribune*, General Dynamics Corporation, Reserve Officers' Association, and Sons of the American Revolution.

NON-ENDOWED PRIZES AND AWARDS

The American Chemical Society Award. This cash award and journal subscription is given by the Columbus section of the ACS to the outstanding student in Chemistry chosen by the department. It was first awarded in 1966.

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 (1916-47), is now maintained by his son, David A. Chambers, M.D., Class of 1923.

The Manetta Chao Prize in Chinese Philosophy. This book award is given to the student judged by the course instructor as having done the best work in Chinese Philosophy. It was established in memory of a staff member of the first Institute in Chinese Civilization held at Tunghai University, Taiwan, in 1962.

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, Political Science, History, Sociology, or a transde-

AFROTC Color Guard



partmental 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.

Department of English Prizes in Fiction. 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.

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

The Hamilton Watch Award. The gift of an engraved electric watch is made to the graduating senior candidate for the Bachelor of Science degree who has made the most successfully combined proficiency in his major field of study with achievements—either academic or extracurricular or both—in the social sciences and humanities. Selection is made by the Dean of the College.

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.

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.

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.

Physics Chairman's Award. This annual award, started in 1968, is given to the outstanding graduating senior major as selected by members of the department.

The Pi Delta Epsilon Book Award. This book award is given to the student annually chosen by the members of Pi Delta Epsilon for excellence in journalism and observance of the canons of good taste.

The Pi Delta Phi Book Prizes. Annually books are awarded to the two students ranking highest in Beginning French and to the four ranking highest in Intermediate French by the local chapter of the French language honorary fraternity, Pi Delta Phi.

The Pi Sigma Alpha Book Award. This prize is awarded to the major student who has contributed most to the field of political science, either by his scholarly work or by promoting interest in government. Selection is by the departmental staff.

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.

The Sigma Delta Pi Medals. Four 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 two students making the best record in Beginning Spanish and 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 Harold Hopper Titus Prize in Social Philosophy. A book prize is awarded annually to the student judged by the course instructor as having done the best work in Social Philosophy. The award honors Harold Hopper Titus, professor of philosophy (1928-64).

The William T. Uter 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 Uter, professor of history (1929-61).

The Wall Street Journal Achievement Award. This award is made to the senior Economics major chosen by the faculty on the basis of scholastic achievement and/or vocational interest in the field of corporate finance and investments. The medal and one year's subscription to the *Wall Street Journal* are furnished by Dow Jones and Company, Inc.

Mrs. Kuhn is cashier



College Costs

COST EACH SEMESTER

	<i>Actual</i> 1969-70	<i>Projected</i> 1970-71
Tuition	\$975.	\$1,050. ¹⁰⁷⁵
Activity Fee	\$ 85.	\$ 85.
Board	\$275.	\$ 300. ⁵⁷⁵⁻⁵⁹⁰
Room	\$225-240. ₅₀₀₋₅₁₅	\$275-290. ₅₇₅₋₅₉₀

EACH STUDENT ON FULL TUITION pays approximately \$600 less than 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.

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 \$975 tuition permits a student to take from 9 to 17 semester-hours of credit. An additional charge of \$61* 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 \$61* for each semester-hour of credit.

Activity Fee. The \$85 activity fee paid by degree candidates and some special students enables the offering of student programs such as concerts, plays, guest lectures, Freshman Orientation, and other activities of a social and recrea-

*\$66 projected for 1970-71

tional nature. It supports, in part, the Student Health Service, the College Union, and intercollegiate athletics. The activity fee provides funding for the Denison Campus Government Association and student organizations it sponsors. Payment of the fee entitles the student to receive the campus weekly newspaper, the literary magazine, and the yearbook.

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 \$16 a day is made.* A group accident and sickness plan is also available to students. Details of this plan are mailed to the student in the summer.

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.

Board. Meals are served in the college dining halls throughout the academic year except during vacations. The charge for board is \$275 a semester.

Room Rent. If two or more students room together, the rent for each student is \$225 a semester. The price of a single room is \$240 a semester. *No room is rented for a shorter period than one semester.* The cost of any damage to the furniture or the room beyond ordinary wear will be assessed to the occupant.

Books and Supplies. The cost of books and supplies is estimated at \$75 a semester.

Theatre Workshop also houses Ace Morgan Theatre



DEPARTMENT OF MUSIC FEES

MUSIC FEES are required of a student taking private lessons in Applied Music, unless the student is majoring in music. On the basis of one private lesson a week including the necessary practice-time, the charge is \$61* a semester.

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 \$61* a semester-hour of credit.

Any student who has played an instrument in band or orchestra for four semesters may take private lessons on that instrument without charge.

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 official record of credits, or a diploma until all college bills are paid in full.*

Deferment. 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 Payment Plan, 6 St. James Avenue, Boston, Massachusetts 02116.

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

*\$66 projected for 1970-71

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 and in case of illness, 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.

If a student withdraws because of illness, does not attend another college, and plans to register for a subsequent semester, the deposits are to be held. If the student does not register during the following two semesters, the deposits will be forfeited.

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 before 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.

Mr. Dunfield directs
admissions



Admission

DENISON UNIVERSITY believes that the aims of a liberal arts education are best attained within a heterogeneous community, and thus encourages applications from members of all cultural, racial, religious, and ethnic groups.

Factors which bear upon the applicant's likelihood of success at Denison are carefully weighed by the Admissions Committee. 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, his possible academic and personal contributions to the University, and his personal statement of his reason for attending college. Although not compulsory, a personal interview is highly desirable.

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* by October of the year prior to entrance. If a prospective student submits his preliminary application after September and before February 15, he is sent a formal application immediately.

REQUIREMENTS FOR ADMISSION

EVERY APPLICANT—freshman or transfer—is expected to meet the following minimum requirements:

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
- 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 the degree of Bachelor of Music.

Requirements for Admission to the Bachelor of Fine Arts degree or Bachelor of Music degree. A small quota of students is admitted each year to Denison to pursue the special degree programs of Bachelor of Fine Arts and Bachelor of Music. Applicants for these degrees are expected to meet the minimum requirements as listed above. In addition, they must submit evidence of their particular skills or talents by prior arrangements with the respective departments.

The following are required:

Department of Visual Arts—a portfolio and/or slides or photographs of art work accomplished.

Department of Music—a personal audition and/or audition tape.

Department of Theatre Arts—a personal audition and/or audition tape, or a portfolio of costumes and/or set designs.

An applicant for either of these special degree programs of Bachelor of Fine Arts or Bachelor of Music should correspond early with the appropriate departmental chairman. A quota student admitted under these special degree programs may not change his degree program until completing at least one full year at Denison and obtaining the permission of the Committee on Academic Status.

Entrance Examinations. The Scholastic Aptitude Test and three Achievement Tests (including the test in English Composition) of the College Entrance Examination Board are required of all applicants. The SAT may be taken in the junior year, in July between the junior and senior years, or in November, December, or January of the senior year. The Achievement Tests may also be taken on any of these dates except November. It is recommended that Achievement Tests be taken in the junior year in those courses not being continued in the senior year. If extenuating circumstances prevent the applicant from taking any required tests, he must make other arrangements with the Director of Admissions.

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

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).

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 *nonrefundable fee* of \$15 to accompany the formal application.
2. A *registration deposit* of \$25.
3. A *room registration deposit* of \$25 except for a local commuting student who does not desire residence hall accommodations.
4. An *advance payment* of \$50 toward tuition for the first semester.

These deposits, totaling \$100, except for *Early Consideration Candidates* described below, are to be paid by the applicant accepted for admission to Denison on or before May 1 and are *nonrefundable* after that date. Early acceptees must make deposits by March 1, *nonrefundable* after that date, or withdraw from early consideration. For further information, see *Refund of Deposits*.

An applicant from the waiting list, or a transfer student accepted after May 1, usually is allowed two weeks to make the payment of deposits.

EARLY CONSIDERATION 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 Scholastic Aptitude Test of the College Entrance Examination Board in the junior year, in July, or in November or December of the senior year. Denison does not restrict the early applicant to a single application. Achievement Test scores are not required for early consideration, but are to be submitted not later than March of the senior year.

DATES OF ACCEPTANCE

CANDIDATES GRANTED early acceptance will be notified on or about January 15 (and *must* reply by March 1). For regular candidates the Admissions Committee completes its selections by April 15 and establishes a waiting list from those remaining applications which are then complete. Any openings occurring after that date are filled from the waiting list.

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 and Literature, Foreign Languages, American History, European History, Biology, Chemistry, Physics, and Mathematics.

Credit and Waiver will be issued to 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 department concerned and/or the Director of Testing.

For information on Proficiency Examinations in all subjects and other methods of satisfying Denison's Foreign Language requirement, see under **PLAN OF STUDY**.

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 him to be in good standing at the college previously attended.
2. **Recommendation** from a dean of the college last attended.

ACCEPTANCE OF TRANSFERS

A **LIMITED NUMBER** of transfer students are admitted each semester. 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 except in those cases of outstanding performance in the first semester. 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 64 semester hours of credit (a normal program for two years) at Denison in fulfilling graduation requirements. A transfer student is required to earn at least a C average at Denison to qualify for a degree. Any requirements for graduation from 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.

Mrs. Seils, Mrs. Krause



Registration

REGISTRATION is the formal enrollment in the college, and in registering, the student subscribes to *all* the regulations, terms, and conditions—academic and financial—set forth in this *Bulletin*. A student must, therefore, register *in person* during the scheduled registration period each semester.

Normal Registration. A normal load is set at 16 semester-hours of credit and a maximum of five courses. 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.

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. The fee is \$51 per credit hour in excess of 17 hours.

Additional Credit. With the consent of the instructor and fulfilling of the required grade-point average a student may register for an additional hour of credit in a course beyond the introductory level. The instructor will specify the nature of the extra work required by the additional hour.

Partial Registration. A regular student, with the permission of the appropriate Dean of Students, may take a part-time schedule of 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 post-graduate 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. If after two semesters a special student has failed to maintain a 2.0 average, his special standing shall be terminated.

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 seventh week of classes.

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 advance 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.

Advance 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 as described above 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.



Students planning schedule with Dr. Huckaby

Late Registration. Failure to complete registration at the time scheduled entails payment of a special fee of \$10. Advance registration not completed at time scheduled is subject to late fee of \$10. The student who has not completed his advance 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.)

Fees for transcripts of a student's record follow: The first transcript shall be issued without charge. Each additional copy is \$1 for currently enrolled students at Denison; \$2 for former students.

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 26 semester-hours of credit including required courses in English and in Physical Education.

Junior Standing. A student must have 60 semester-hours of credit.

Senior Standing. A student must have 94 semester-hours of credit.

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

By rule of the Ohio Conference freshmen are eligible to participate in intercollegiate athletics.

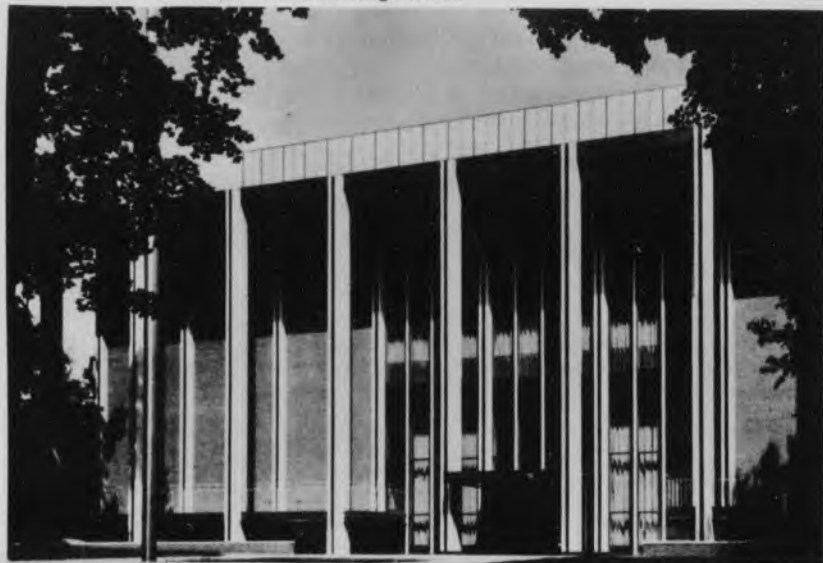
RECOGNITION OF CREDIT EARNED ELSEWHERE

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 also to summer school credits earned elsewhere.) If a student achieves an over-all average of less than 2.0 for courses taken in summer school, credit for courses passed with a grade of C or better shall be given only at the discretion of the Committee on Academic Status.

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.

Slayter Hall is College Union





Dr. Chessman with Woodrow Wilson Fellows

Plan of Study

DENISON OFFERS A PLAN OF STUDY which insures that all students earning a degree shall have an opportunity to obtain a minimum level of acquaintance with the chief areas of human knowledge, the separate disciplines of the areas, and their unique or complementary methods of discovery. In addition, the program provides for adequate concentration in a major field and for a reasonable choice of elective courses.

The degree earned may be Bachelor of Arts, Bachelor of Science, 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, Biology, 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 four credits for Convocation and Chapel, or the 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 and the passing of a *comprehensive examination* in his field of concentration. 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 basic courses (See GENERAL EDUCATION) must be completed by every candidate for a degree. These basic requirements will be adjusted for an upperclass student transferring to Denison. In some instances, courses he has previously taken will be accepted as the equivalent of the Denison requirements.

The Field of Concentration. The student is enabled to specialize in a particular field of learning, either in one department or in two or more departments.

Foreign Language Requirement. This requirement may be satisfied (A) by the submission of proof of proficiency or (B) by taking language courses.

A. Entering students will be given *credit* and/or *waiver* by meeting the following conditions:

- Credit* and *waiver* for a score of 700 on a College Board Achievement Examination.
- Credit* and/or *waiver* for adequate performance on a CEEB Advanced Placement Test. (See *Advanced Placement in ADMISSION*.)
- Credit* and/or *waiver* for successful completion of the Proficiency Examination given each year in September before classes begin by the Department of Modern Languages. (See *Proficiency Examinations in PLAN OF STUDY*.)
- Waiver for four or more years of one high school language submitted for entrance to Denison.

B. A year of high school language is considered equivalent to a college semester (111), two years of a high school language to a college year (111-112), etc. *High school units may not be repeated for credit at Denison*. Completion of a 212 course, two college years, is considered the basic measure of acceptable proficiency. An exception is made when a student begins a new language.

The following alternatives exist for completing the language requirement through taking course work:

If the student presents no language or cannot or does not wish to continue the one he began in high school, he may take a 111-112 course to fulfill the requirement. (8 hours)



Denison's modern 40-seat Language Laboratory is located in Fellows Hall

If he presents one year of a high school language, he may complete the requirement by taking a 112 and a 211 course. (7 hours)

If he presents two years of a high school language, the requirement is fulfilled by taking a 211-212 course. (6 hours)

For those who enter Denison with three years of a high school language, a special course, 215, will satisfy the requirement. (4 hours)

* * *

If a student presenting four years of a high school language wishes to elect an advanced course (311 or above) but, in the judgment of the Department of Modern Languages is not adequately prepared, he may be permitted to take the 215 course for credit.

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.*

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, Biology (Botany and Zoology), Chemistry, Dance, Earth Science (see Geology), Economics, Education,* English (in Literature and in Writing), Geology, History, Mathematics, Modern Languages (French, German, Russian, and Spanish), Music (see Bachelor of Music degree), Philosophy, Physical Education, Physics, Political Science, Psychology, Religion, Social Studies (transdepartmental), Sociology, Speech, Theatre Arts, and Visual Arts.

A candidate for the Bachelor of Arts degree who concentrates (or majors) in one department must successfully complete from 24 to 40 semester-hours of work with at least a 2.0 average in the major field. If the student earns credit in a given department in excess of 40 semester-hours, the excess must be in addition to his normal graduation requirement. A total of 60 hours may be earned in the major field and specified related area requirements.

A Candidate for the Bachelor of Science Degree. A student may concentrate in any of the following fields: Astronomy, Biology (Botany and Zoology), Chemistry, Geology, Mathematics, Physics, and Psychology.

A candidate for the Bachelor of Science degree may earn a maximum of 70 semester-hours in the major field and specified related area requirements. At least 24 hours must be earned in the major field with at least a 2.0 average.

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 2.0 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.

*A student may obtain certification for secondary school teaching, but must major in another academic field, other than Education.



Dr. Seils meets with seminar class

Physical Education Requirement for Men. 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 have a reduced graduation requirement of 126 semester credit hours. *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.)

Physical Education Requirement for Women. (See PHYSICAL EDUCATION.)

Convocation and Chapel Attendance. One or one-half credit-hour may be earned each semester, providing the record shows the student has met the appropriate attendance requirements. Many lectures, recitals, concerts, and other cultural and educational events are offered for supplementary convocation credit in addition to the all-college convocations. *Any student who does not accumulate four credit-hours 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.



CORRECTION!!!

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Reshoot follows

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.

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A candidate for the Bachelor of Arts degree who concentrates (or majors) in one department must successfully complete from 24 to 40 semester-hours in work with at least a 2.0 average in the major field. If the student earns credit in a given department in excess of 40 semester-hours, the excess must be, in addition to his normal graduation requirement. A total of 60 hours may be earned in the major field and specified related area requirements.

A Candidate for the Bachelor of Science Degree. A student may concentrate in any of the following fields: Astronomy, Biology (Botany and Zoology), Chemistry, Geology, Mathematics, Physics, and Psychology.

A candidate for the Bachelor of Science degree may earn a maximum of 70 semester-hours in the major field and specified related area requirements. At least 24 hours must be earned in the major field with at least a 2.0 average.

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 2.0 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.

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Physical Education Requirement for Women. (See PHYSICAL EDUCATION.)

Convocation and Chapel Attendance. One or one-half credit-hour may be earned each semester, providing the record shows the student has met the appropriate attendance requirements. Many lectures, recitals, concerts, and other cultural and educational events are offered for supplementary convocation credit in addition to the all-college convocations. *Any student who does not accumulate four credit-hours 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 meet all basic requirements except that such a candidate who is not also a candidate for a teaching certificate may, with the consent of the departmental chairman, substitute up to nine hours from the recommended list for the specified requirements (See SUMMARY OF COURSE REQUIREMENTS).

Candidates for the Bachelor of Fine Arts degree may earn a maximum of 70 semester-hours in the major field and specified related area requirements. At least 44 of these hours must be earned in the major field with at least a 2.0 average.

An annual Spring Concert is presented by the Concert Choir and Orchestra



DEGREES IN MUSIC

A STUDENT who desires to earn any of the 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.

The general education requirements are basically the same for all degrees earned at Denison. (See Specified Requirements at the beginning of this chapter.) In addition, the student will satisfy the Physical Education requirement (4 hours) and earn Chapel and Convocation credits or their equivalent (4 hours). A student planning to teach Music in the public schools will elect Education 213, 217, 315-316, 415-416, and 420.

FIELDS OF CONCENTRATION FOR MUSIC DEGREES:

BACHELOR OF MUSIC

Major in Applied Music. Music (78 hours)—Music 115-116, 201-202, 203-204, 215-216, 311-312; and Ensemble (4 hours); Applied Music (28-32 hours); Electives (9-13 hours); and a Graduating Recital in the major field.

Major in Music Education. Music (58 hours)—Music 115-116, 141-142, 151-152, 161-162, 201-202, 203-204, 215-216, 307-308; Applied Music (16 hours), and Ensemble (4 hours); Education 213, 217, 315-316, 415-416, and 420.

This major enables the candidate to undertake the regular undergraduate plan in preparation for public school music teaching, leading to both the Bachelor of Music (Music Education) degree and the Ohio Provisional Special Certificate (Music).

Major in Theory and Composition. Music (77 hours)—Music 115-116, 141-142, 151-152, 201-202, 203-204, 215-216, 307-308, 311-312, 331-332, 341-342, 401, 441-442; Applied Music (16 hours); and Ensemble (4 hours). In addition, the student will have three compositions ready for performance at the end of the junior year and will compose a work of major proportions during the senior year.

BACHELOR OF ARTS WITH MUSIC MAJOR

REQUIREMENTS: Music (40 hours) including Music 115-116, 215-216, 311-312, Ensemble (4 hours), and Applied Music (14 hours). In Related Areas (20 hours) including Music 201-202, 203-204, and 8 additional hours to be prescribed by the major adviser.

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 the end of the seventh week of classes, no courses are entered on his permanent record. (See WITHDRAWAL FROM THE UNIVERSITY under REGISTRATION.)

Pass-Fail Courses. Juniors and seniors may elect to take one course per semester, not in their major field, on a Satisfactory-Unsatisfactory basis with the mutual agreement of the instructor and department involved.

Presidents' Drive is known as "The Drag"



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. Sophomore and junior students on academic probation at the end of the academic year shall be readmitted for the fall semester only through petition to—and favorable action by—the Committee on Academic Status. (This includes the student who is on probation at the end of his fourth semester of college but does not qualify for junior standing on the basis of credit-hours earned, but does not include the student who completes his third semester of college at the end of the academic year). It is the usual policy of the Committee to demand evidence of acceptance of the student by a major department before taking favorable action. These policies apply also to the student of the same classification who wishes to return to Denison after having withdrawn while on probation.

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 Director of Admissions. If after two semesters a student has failed to maintain a 2.0 average, his special standing shall be terminated.

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.



Senator Hatfield speaks at 1969 Commencement

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, both over-all and in the major field. This means that his entire cumulative record, including courses passed, failed, and repeated, must average at least 2.0.

Graduate Record Examinations. These examinations, while no longer required for graduation, are available to students through national administrations at designated times. The aptitude test and the advanced test in the major field are generally necessary for the student who is applying for admission to graduate study in his undergraduate discipline. Consult the Director of Testing.

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. Seniors are excused from final examinations in the semester they initially take the comprehensive examination.

PRIVILEGES OPEN TO THE STUDENT

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

Advanced Placement. A 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 and 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 department concerned and/or the Director of Testing.

Proficiency Examinations. These examinations are regularly scheduled by the Office of Testing at the beginning of each academic year at Denison. When an entering student demonstrates by examination his grasp of the subject matter in any course in basic education, he will be excused by the Director of Testing from taking that course. If he passes the examination with a grade of A or B, the student will receive the corresponding graduation credit.

Any student may take a proficiency examination in any Denison course provided that the student has not completed an equivalent—or a more advanced—course in the same area. If he passes the examination with a grade of A or B, he will receive the corresponding course credit toward graduation. If he passes the examination with a grade of C, no credit will be given but, if the course is required, it may be waived with the approval of the departmental chairman concerned and the Director of Testing.

A student may take a proficiency examination in Oral Communication during either the freshman or sophomore year. A student who fails to meet the proficiency requirement by oral examination must earn credit in Speech 101, 113, 218, 221, 222, or 223, or in Theatre Arts 101, 113, 229, 230, 231, or 232.

Freshman-Sophomore Seminar Program. Seminars covering a variety of topics are open to selected freshman and sophomore students of demonstrated outstanding ability. (See *Interdepartmental Seminars*.)

Directed Study. A 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, Senior Research, or Directed Study in the senior year.

Senior Research. A student may enroll for Senior Research provided he has not enrolled for Individual Work for Honors. Senior Research requires a major thesis, report, or project in the student's field of concentration and carries eight semester hours of credit for the year. It may be converted to Individual Work for Honors if application is made at least five weeks before the end of classes in the spring semester. Semester hours of credit for Senior Research *shall not* be counted toward the maximum hours allowed in the student's major.

Honors Project. This privilege is open to any senior whose record during the four or six semesters preceding application shows at least a 3.0 grade-point average with at least 3.4 in the field of concentration. 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 eight credits toward graduation. If in addition to receiving honors rating on his project, he passes his comprehensive examination with a superior rating and maintains at least a 3.0 cumulative grade-point average for all work taken at Denison, he will be graduated with Honors. (See Graduation with Honors under ACADEMIC 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.

These students are paid a modest 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.

Students enjoy semi-annual "D-Day" break from classes



INTERNATIONAL EDUCATION

TODAY'S WORLD calls for men and women who are appreciative of the cultural variation present in the world. Many of Denison's faculty would agree that the contemporary world requires of its educated citizens a breadth of outlook and a degree of sensitivity to other cultures unlike any required in the previous history of mankind. This requirement coincides with the universality of viewpoint characteristic of the liberally educated individual.

Denison is now developing means by which a student can obtain a world perspective. This person will have developed a broad view of past, present, and future problems of individuals and human societies and a capacity to understand and respect the integrity of foreign cultures.

Toward this objective, a number of opportunities are available at Denison. A student, whatever his major, should be able to achieve the perspective referred to by choosing certain courses as part of his General Education program or as electives. Students and some majors can tailor their course selections within their major and in related courses to broaden this perspective.

Each Denison student may achieve a world perspective by choosing several of the courses presently offered at Denison. (For specific course descriptions see *Courses of Study*.) These include the following courses: Interdepartmental courses in Soviet Studies and Asian Literature; Modern Languages; Philosophy, including Chinese Philosophy and Chinese Classical Language and Thought; Religion, including World Religions and Hinduism and Buddhism; Theatre Arts; Visual Arts, including Oriental and Islamic Art; and certain courses in English, Geography, History, Music, Political Science, Economics, and Sociology.

Each year visiting lecturers, art exhibitions, foreign films, language tables, dramatic productions, and musical productions add to the general campus ethos. Of particular note here is the collection of Burmese Art objects housed in Burton Hall.

Directed Studies are also available on particular topics. Students may do an individual directed study on a particular topic or area, either within a specific department or on an interdepartmental basis.

Students may spend their Junior year overseas via a number of programs with which Denison cooperates. (See *Junior Year Abroad*). Anyone interested in any Junior Year Abroad program should see Dr. Walter T. Secor, Junior Year Abroad Adviser.

International Relations Concentration. The Department of Political Science offers a concentration in International Relations. A student taking this concentration will major in Political Science and be required to take the courses listed below in other academic disciplines. This concentration is suggested particularly for students interested in public service with an international dimension and/or for those considering work with a business concern with

international interests. A student planning on graduate work in International Relations may wish to complete a regular departmental major.

A student considering this concentration should consult with the chairman of Political Science. The concentration consists of the following courses:

Political Science 211 (American National Government), 221 (Comparative Politics), 341 (International Politics), 342 (International Law and Organization), and one additional course.

Economics 200 (Principles and Problems), 301 or 302 (Macro or Micro Economics Analysis), 314 (International Economics), and 316 (Economic Development).

History 241 (Western Man and the Non-European World) and three additional courses to be selected in consultation with the chairman of Political Science.

Modern Languages—In addition to meeting the General Education requirement (hours not counted toward the major), either a third year of a language or the first year of a second language is required.

Some flexibility in the courses meeting the requirements for this concentration is possible upon consultation with the chairman of Political Science. The comprehensive examination is conducted by the Political Science department with the assistance of representatives from the other participating departments.

Area Studies Major. Latin America, France, or Germany. A major in Latin America, 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, Political Science, 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 Latin America should see Mr. Steele or Mr. Toplin; for France, Mr. Secor; and for Germany, Mr. Hirshler.

Russian Studies. A number of courses in Russian and Soviet studies are available on a transdepartmental basis and within regular departments. See Interdepartmental courses, Modern Languages, History, Political Science, and Economics.

Junior Year Abroad. Denison participates in various programs officially sponsored and supervised by recognized American colleges and universities, the Great Lakes Colleges Association, and the Regional Council for International Education. These programs are open to any Denison student meeting the following requirements. Normally the student must complete four semesters of work prior to the year abroad. Exceptions, however, can be made on

*Dr. Scott counsels junior-year
abroad applicant.*



recommendation of the student's adviser. The student must be in good academic standing. He must give evidence of adequate preparation in the foreign language needed, and be recommended by the appropriate Dean of Students, the Junior Year Abroad adviser, and 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 International Studies 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 programs available. 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 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.



CORRECTION!!!

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Reshoot follows

international interests. A student planning on graduate work in International Relations may wish to complete a regular departmental major.

A student considering this concentration should consult with the chairman of Political Science. The concentration consists of the following courses:

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Area Studies Major. Latin America, France, or Germany. A major in Latin America, 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, Political Science, 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 Latin America should see Mr. Steele or Mr. Toplin; for France, Mr. Secor; and for Germany, Mr. Hirshler.

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Dr. Secor counsels junior-year-abroad applicants.



recommendation of the student's adviser. The student must be in good academic standing. He must give evidence of adequate preparation in the foreign language needed, and be recommended by the appropriate Dean of Students, the Junior Year Abroad adviser, and 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 International Studies Committee of the Faculty. All information must be in the hands of the Committee by April 1.

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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 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.

Great Lakes Colleges Association programs are available at American University of Beirut, Lebanon; Waseda University in Tokyo, Japan; and in Bogota, Colombia. Requirements vary as to language competence, but, generally, instruction is in English. For the latter two programs language study either in Japanese or Spanish is required. It is possible to participate in the programs in Japan and Colombia for a single semester, and a summer program in Spanish is available in Mexico. In addition, the GLCA program at the University of Aberdeen in Scotland offers a limited number of places for Denison students.

The Regional Council for International Education sponsors a program focusing on European studies in Basel, Switzerland. Some knowledge of either German or French is required, but instruction is in English.

Recognized programs of other American institutions include the Sweet Briar College program at the University of Paris; Wayne State University, University of Munich; Syracuse University, University of Florence; New York University, University of Madrid; John Hopkins University, Center for International Studies, Bologna, Italy; and University of Wisconsin, India.

International Studies Committee

This committee has responsibility for International Education on campus. Members of the Committee are as follows:

James L. Martin (Chairman (Religion))	Richard H. Mahard (Geology and Geography)
Eric E. Hirschler (Visual Arts)	William L. Henderson (Economics)
William J. Bishop (Political Science)	Charles J. Stoneburner (English)
Clarke L. Wilhelm (History)	Howard R. Holter (History)
Walter T. Secor (Modern Languages)	Norman H. Pollock (History)
Charles W. Steele (Modern Languages)	Morton B. Stratton (History)
F. Trevor Gamble (Physics)	Maylon H. Hepp (Philosophy)
George R. Hunter (Music)	2 student representatives

Library Resources. Library holdings on Asia, Africa, and the Soviet Union are of good quality. Stimulated by a grant from the Ford Foundation and smaller grants from the Regional Council for International Education, holdings in these areas are growing rapidly. Of particular note is the George F. Kennan Collection on the Soviet Union. A student may do research (in history particularly) in French and German.



Dr. J. B. Brown and student in new chemistry lab

OFF-CAMPUS PROGRAMS IN THE UNITED STATES

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 Government and Public Administration 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 at Denison. While in Washington they meet the expenses of travel, room, fees, meals, and incidentals directly. Application for the Washington Semester should be made to the chairman of the Department of Political Science but the plan is open to students interested in other major fields.

Urban Semester in Philadelphia. The Great Lakes Colleges Association and the Philadelphia Board of Public Education sponsor jointly a program for students in member colleges of GLCA. The program is designed to give students direct participation in the social changes, bordering at times on revolution, that are occurring in urban areas. In large measure, the city itself is classroom, textbook, and curriculum.

Students in the program are assigned to professionals engaged in improving the qualities of urban living. These people—educators, religious leaders, community leaders, urban administrators—help supervise student work on individual urban projects. Students follow a directed course of relevant academic studies, including seminars, research reports, and discussion groups. Students receive a full semester of academic credit for successful participation.

Arts Program in New York. The Great Lakes Colleges Association sponsors an Arts program in New York City for students in member colleges. Students in the program serve apprenticeships in museums, theatres, and studios in the New York City area. They also follow a directed course of academic study, receiving a full semester of academic credit for successful participation.

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 the junior 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, Fisk University, and Morehouse College. 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 or medicine. To qualify for this privilege, a student must successfully complete the specified requirements for graduation at Denison with a total 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 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 or 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.



Students in college union

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 or six years. In this program, a student spends his first three years at Denison and the last two or three 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 or second 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 or third 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.

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 in the engineering program of his choice at Rensselaer. The College of Engineering and Applied Science of the University



CORRECTION!!!

The previous document(s) may
have been filmed incorrectly...

Reshoot follows

Merrill-Potter School. This Denison, 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 the junior 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, Fisk University, and Morehouse College. 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 advice of the Intercollege Committee Council of the Denison Campus Government Association.

COMBINED ARTS-PROFESSIONAL COURSES

COMBINED ARTS-PROFESSIONAL. One will enable the Denison student to obtain a degree or admission 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 or medicine. To qualify for this privilege, a student must successfully complete the specified requirements for graduation at Denison with a total of 36 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 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 or 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.



Students in college union

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 or six years. In this program, a student spends his first three years at Denison and the last two or three 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 or second 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 or third 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.

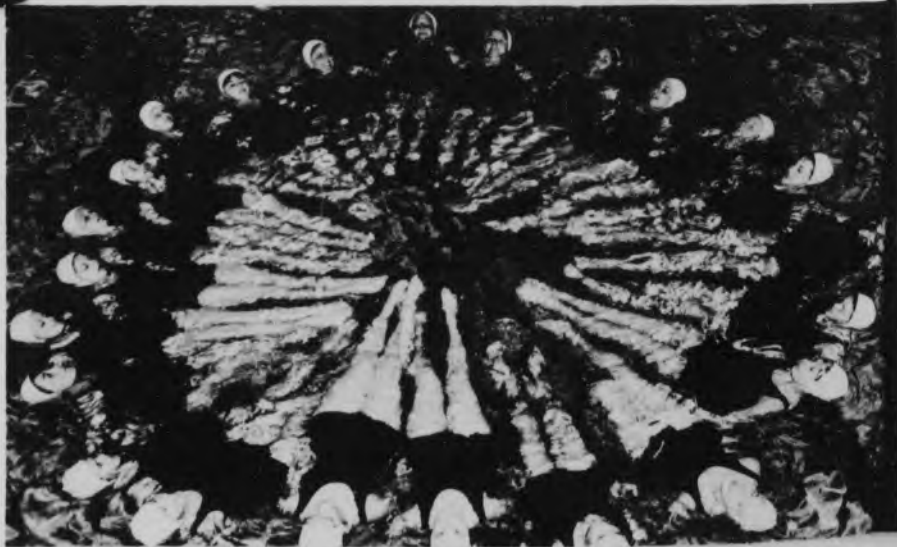
With Colleges of Engineering. In order to facilitate the combination of liberal arts and engineering education and to give a student planning a career in engineering an opportunity to secure a broad basis for his specialized courses and thereby enhance his worth as an engineer and as a citizen, *Rensselaer 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 in the engineering program of his choice at *Rensselaer*. The College of Engineering and Applied Science of the *University*

of Rochester has included Denison in its Two-College Plan. This program leads to a B.A. degree from Denison and a B.S. degree from Rochester. During the three years at Denison the student attains a strong foundation in the natural sciences, the humanities, and social sciences. The last two years are devoted to specialized professional preparation in one of the departments of the College of Engineering and Applied Science—Chemical Engineering, Electrical Engineering, Mechanical and Aerospace Sciences, and Optics. Similar arrangements are available with other approved colleges of engineering.

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 the Denison requirements for graduation and this medical 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.

Synchronized swimming group performs



Time for Study



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 (basic courses).

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 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 few of the following General Education courses continue, with slight modification, courses which have long been offered in every college of liberal arts. Others cross traditional departmental lines to investigate broad areas of knowledge. All of them are designed to contribute to vocational success and to provide the skills, understanding, and sense of values necessary for intelligent living.

AIR FORCE ROTC students who complete the two-year basic program will be permitted to meet the Physical Education requirement by earning two hours' credit only.

SUMMARY OF BASIC REQUIREMENTS

Requirements for Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, and Bachelor of Music Degrees**

	Required	Recommended**
ENGLISH 101	3	
FINE ARTS (Choice of one course from Music 101, 102, or 201-202; Theatre Arts 103, 105, 111, 112, 215, 216, or any Theatre History course; Visual Arts 101, 103a, 103b, 103c, 121, or any two Art History courses). Recommended is a course in another Art area.	3	3
FOREIGN LANGUAGE (See PLAN OF STUDY) to be completed by the end of the Junior Year	6	
LITERATURE (in English at 200-level or in a Foreign Language at 300-level)	3	
MATHEMATICS 101 or 121 or PHILOSOPHY 105 or 312		3
PHILOSOPHIC AND THEOLOGICAL IDEAS GE 18—Introduction; (or Philosophy 101, or Religion 101, 102 or 103); to be taken in Freshman year Philosophy and Religion at the 200 level or above to be taken in the Junior or Senior year.	3	3
PRINCIPLES OF SCIENCE 3 Introductory one-semester courses in 3 different departments (Astronomy 111 or 112, Biology 101, 102, or 103; Chemistry 103 or 201; Geology 111 or 112; Physics 103, 106, 121, or 221, or Psychology 101)	9	
SOCIAL SCIENCES (Choose 2—Economics 200, Government 211, or Sociology 207 or 302)	7	3
HERITAGE OF WESTERN MAN (General Education 20) to be taken in Freshman year	4	
	<hr/> 38	<hr/> 3**

*A candidate for the Bachelor of Fine Arts or the Bachelor of Music degree (not expecting to qualify for a Teaching Certificate) may be permitted, with the written consent of his departmental chairman, to substitute up to 9 semester-hours of credit from the recommended list for 9 hours from the required list.

**In addition to the required courses a student must elect at least one 3-credit course from the recommended list.

ORAL COMMUNICATION

Speech 101, 113, 218, 221, 222, or 223 or Theatre Arts 101, 113, 229, 230, 231, or 232 must be taken by a student who fails to pass the proficiency examination in Oral Communication during the Freshman or Sophomore year.

PHYSICAL EDUCATION REQUIREMENT

See Courses of Study (PHYSICAL EDUCATION)

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GENERAL EDUCATION

GENERAL EDUCATION 18—INTRODUCTION TO PHILOSOPHY AND THEOLOGY. A study of basic philosophic and theological ideas. Emphasis is placed on certain significant issues which the student will meet in other fields of study, and to which he may elect to return in the advanced companion course in this field. Attention is directed to the Bible and to textbooks in Philosophy. (To be taken in the freshman year either semester.) Philosophy 101 or Religion 101, 102, or 103 may be substituted. **Staff. 3**

GENERAL EDUCATION 20—HERITAGE OF WESTERN MAN. A discussion-centered course which examines Western man's search for freedom since the Renaissance. Selections from the writings of leading thinkers such as Luther, Locke, Rousseau, Paine, Burke, Marx, and Mill will be studied. (To be taken in the freshman year either semester, except by special permission.) **Staff. 4**

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 two departments. 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.



1831—Centennial Tablet—1931

TRANSDEPARTMENTAL MAJORS

AREA STUDIES MAJOR: *See* INTERNATIONAL STUDIES

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, History, Philosophy, Political Science, 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.

INTERDEPARTMENTAL COURSES

ASSOCIATE PROFESSOR MORTON L. SCHAGRIN (History of Science)

ASSISTANT PROFESSORS HOWARD R. HOLTER (Russian Culture and Civilization); C. J. STONEBURNER (Asian Literature); WILLIAM J. NICHOLS (coordinator, Black Culture), (on leave all year); JOSE R. ARMAS (coordinator, Caribbean Studies); DAVID A. RICE (Black Culture)

VISITING LECTURER (Mrs.) FELICITAS GOODMAN (Linguistics)

INTERDEPARTMENTAL 101—COMPUTING (ALGOL PROGRAMMING). Each student will attend a 1-hour lecture and a 2-hour laboratory each week until he has written the prescribed set of programs and successfully run them on Denison's Computer. There is no final examination in the course.

Mathematics Staff. 1

INTERDEPARTMENTAL 211—THE STUDY OF URBANIZATION. Deals with the origins of cities, the role of cities in the social, political, cultural, and economic development of areas, and the nature of urbanization as both a dependent and independent variable.

Major theories are discussed in a critical comparison of the contributions of the different social sciences to urban studies, and some of the outstanding books and monographs are examined.

Staff. 4

INTERDEPARTMENTAL 271-272 — GENERAL LINGUISTICS. The study of the analytical (phonology, morphology, syntax) and cultural (comparative and anthropological linguistics) aspects of language, respectively.

Mrs. Goodman. 4

INTERDEPARTMENTAL 301—HISTORY OF SCIENCE. The history of the emergence of modern science from medieval thought. At-

tention is focused on the interrelations of this movement with the philosophy and the social, political, and economic changes occurring then. A survey of the historical foundations of modern science. Prerequisites: Junior standing and completion of two semesters of General Education science requirements. Mr. Schagrin. 3

INTERDEPARTMENTAL 302—HISTORY OF SCIENCE. Intensive study of specific cases of innovations in the sciences in the period from Newton to the mid 19th century. A detailed examination of examples of research in the experimental sciences. An attempt to understand the conditions for progress and the forces at work in the evolution of science. Prerequisites: Junior standing and completion of two semesters of General Education science requirements. *Interdepartmental 301 is not required.*

Mr. Schagrin. 3

INTERDEPARTMENTAL 310—RUSSIAN CULTURAL AND INTELLECTUAL DEVELOPMENT. The evolution of Russian art, music, literature, theatre, and philosophy from the 9th Century to about 1917. Mr. Holter. 3

INTERDEPARTMENTAL 311—INTELLECTUAL AND CULTURAL DEVELOPMENT OF THE USSR. The evolution and achievements of literature, the arts, and the systematic and political philosophy of Soviet Russia and the Republics of the USSR since 1917.

Mr. Holter. 3

INTERDEPARTMENTAL 315—SOVIET CIVILIZATION. An approach to the understanding of today's Soviet Union from the standpoint of anthropology, economics, geography, political institutions, and sociology.

Mr. Holter. 3

INTERDEPARTMENTAL 320—ASIAN LITERATURE IN ENGLISH TRANSLATION. A sampling, chronological within each culture, of drama, epistle, essay, fiction (long and short), and poetry (epic, ode, lyric) from Babylon, China, India, Japan, Persia, and other Asian countries. Mr. Stoneburner. 4

INTERDEPARTMENTAL 331 — BLACK CULTURE IN AMERICA. A seminar exploring the nature and impact of Afro-American life in the United States. Readings and reports will deal with such topics as the history, music, dance, art, literature, religion,

political involvement, and community structure of Negroes in America. (Enrollment by consent). Staff. 4

INTERDEPARTMENTAL 341 — CARIBBEAN STUDIES. Designed for students who wish to combine a directed study on some aspect of the Caribbean area with a 2-3 week field trip during the Christmas holidays. Participating students will meet together for joint seminars prior to the field trips. Each will conduct on-the-spot investigations relative to his area of concentration.* Area for 1968-69: Puerto Rico. Staff. 3

INTERDEPARTMENTAL 392—RELIGION AND POLITICS: THE INDIAN EXPERIENCE. An examination of major aspects of the relationship between religion and politics in Indian society. Selected historical examples and major religious concepts and practices will serve as a means of examining such topics as revolution and reform, nationalism, leadership, legitimacy, and social control. Comparisons will be made with the experience of the United States and other countries. Mr. Brakeman, Mr. Martin. 4

INTERDEPARTMENTAL 432 — SOVIET FOREIGN POLICY SINCE 1945. The course will examine the basic questions revolving around Soviet foreign policy since the onset of the Cold War: War and peace, the debate over Europe, conflicts with the U.S.A., attitude toward the emerging countries, relations within Soviet foreign policy, mechanisms of shaping and decision-making in foreign affairs, and the influence of geography, economics, political institutions, and ideology on the above.

Mr. Bishop, Mr. Holter. 4

INTERDEPARTMENTAL 450—CLASSICS OF SCIENCE. A directed reading program concerned with classical investigations in science for Science majors only. The primary emphasis will be on the methods and modes of approach used by the great scientists in the student's own field of concentration. Prerequisite: Consent of instructor.

Mr. Schagrin. 2, 3, 4

*Students will work under the direction of a faculty member in one of the following departments: History, Economics, Political Science, Sociology, Geography, Music, Art, Modern Languages, Religion, and Biology. Other departments may be added as interest is indicated.

Dr. Consolo directs seminars program

INTERDEPARTMENTAL FRESHMAN/SOPHOMORE SEMINARS



PROFESSORS R. LEE BOSTIAN (Music); DANIEL O. FLETCHER (Economics); ERIC E. HIRSHLER (Art History); RICHARD H. MAHARD (Geology and Geography); LEE O. SCOTT (Philosophy and Religion)

ASSOCIATE PROFESSORS GORDON L. GALLOWAY (Chemistry); QUENTIN G. KRAFT (English); ALFRED W. LEVER (History); MORTON L. SCHAGRIN (History of Science)

CHAIRMAN, PROFESSOR DOMINICK P. CONSOLO (English)

THESE SEMINARS are specially conceived by each instructor to challenge and motivate the superior student. Covering a variety of topics, each seminar is unique in utilizing the instructor's special discipline as a center from which to radiate outwards in a mutual exploration of intellectual discovery.

INTERDEPARTMENTAL 192A—TIME, ENERGY, COMMUNICATION. A lecture-discussion course designed to apply the scientific method and evaluate current thinking to major problems which confront 20th-century man. Man and his many problems can be discussed under the broad headings of Time, Energy, and Communication. It is expected that serious involvement in the discussion of these major problems will not only direct the student to original scientific papers but also play a role in developing an empathy for science and its significance for our future existence. (Offered second semester in 1969-70.)

Mr. Norris. 3

INTERDEPARTMENTAL 192C—SCIENCE AND HUMAN VALUES. This seminar will focus on the conflict and compromise of science and human values. It examines to what extent the methods of science are used in creating human values. The question of whether or not science, as personally regarded, is a de-humanizing force is considered. Answers to these questions are sought by considering some of the human

problems created, neglected, and solved by science and scientific methods. (Offered first semester in 1969-70.)

Mr. Galloway. 3

INTERDEPARTMENTAL 192E—LITERARY FORMS AND LIFE PATTERNS. This seminar will attempt to trace major literary forms to a source in basic patterns of human existence. The course will focus mainly on four forms—the narrative, the lyric, the comic, and the tragic. Readings for the course will include works in critical theory as well as examples of the major forms to be examined. (Offered second semester in 1969-70.)

Mr. Kraft. 3

INTERDEPARTMENTAL 192I—ECONOMIC DECISION MAKING AND POLITICS. This seminar will examine the making of decisions at the Federal level concerning the national economy and business. Emphasis will be on how and why these decisions are made. Whatever basic economics may be needed to explain specific decisions will be introduced. The seminar will concern

itself specifically with comparing and contrasting policy decisions, by way of examples, of the Kennedy, Johnson, and Nixon administrations. (Offered second semester in 1969-70.)

Mr. Fletcher. 3

INTERDEPARTMENTAL 192R—THE NEW MORALITY. The revolution in morals will be the subject matter of this seminar. To know the justifying reasons for what persons do is intellectual freedom. New ways may mean new reasons, or merely new expressions of old reasons. Students will explore the meaning and reasons behind the current non-conformity in sex, politics, and general life style. Attention will be given to the existentialist's *Ethics of Ambiguity*, the so-called *Playboy* philosophy, Ayn Rand's *Ethics of Selfishness*, the theological expressions of *Situation Ethics*, the humanistic ethics of Fromm's *The Art of Loving*, as well as the continuing traditions of rational and naturalistic ethics. (Offered second semester in 1969-70.)

Mr. Scott. 3

INTERDEPARTMENTAL 192A—THE AGE OF THE BAROQUE THROUGH THE EYES OF REMBRANDT. The premises of this seminar are the following: (1) that an artist is a representative of his time and place—that tradition, philosophy, artistic theory, political and economic environment play a part in his work, that we can understand the artist better by studying these; and (2) that an artist influences his environment through his art. Students will study the drawings, etching, and paintings of Rembrandt, his artistic forebearers and contemporaries in the light of these premises. Visits may be arranged to museums. (Offered second semester in 1969-70.)

Mr. Hirshler. 3

INTERDEPARTMENTAL 192G—MOUNTAIN GLOOM AND MOUNTAIN GLORY. Today, the fact that man responds to and extols the beauty of mountain scenery is taken for granted, much as one accepts without surprise his appreciation of the beauty of the stars, or of flowers and trees. Yet, it has not always been thus. This seminar will involve an inquiry into the evolution of the appreciation of inanimate nature. Particular attention will be given to the changing pattern of appreciation that seems to have accompanied the development of Geology as a science and the change in belief in

modern times concerning the age of the earth and the evolution of landscape. (Offered second semester in 1969-70.)

Mr. Mahard. 3

INTERDEPARTMENTAL 192H—EUROPE AT ITS ZENITH: LATE 19th CENTURY. The period 1890-1914 in European history was the Golden Age of Europe—an age which offered a dramatic contrast between a veneer of confident optimism and underlying dark currents that were to surface catastrophically in 1914 in an almost incomprehensible sanguinary civil war that destroyed European primacy. This seminar seeks to investigate the currents of European History in that paradoxical age. It will involve readings, reports, and papers on such aspects of the age as nationalism, imperialism, militarism, conservatism, socialism, and industrialization. (Offered first semester in 1969-70.)

Mr. Lever. 3

INTERDEPARTMENTAL 192M—CREATIVITY AND MADNESS. The relationship of genius to creative process has long been of interest to educators, philosophers, psychologists, and artists. The seminar will explore this interest, being concerned with verbal and non-verbal expression and the relationship of mind (particularly mental aberration), personality, and artistic philosophy upon the created art. The subjects involved will be Music and the Arts, Philosophy and Aesthetics, Psychology and Literature. The general faculty will be drawn upon for special lectures outside the professor's own discipline. The seminar will depend on interests of both students and professor, researching into particular aspects of chosen subjects. (Offered first semester in 1969-70.)

Mr. Bostian. 3

INTERDEPARTMENTAL 192P—TECHNOLOGY AND HUMAN VALUES. How has technology affected traditional human values, and what, if anything, can be done about it? A careful examination of the nature of modern technology and the bases of human values will be followed by critical evaluations of various proposals for dealing with the apparent conflict between the demands of technology and the claims of humanity. A major emphasis will be on technologically oriented decision-making in all areas: international affairs, social planning, and individual choice. (Offered second semester in 1969-70.)

Mr. Schagrin. 3

ASTRONOMY

PROFESSOR SAMUEL C. WHEELER

ASSOCIATE PROFESSOR F. TREVOR GAMBLE (on leave first semester, 1969-70)

ASSISTANT PROFESSORS RONALD R. WINTERS, MICHAEL E. MICKELSON

CHAIRMAN (first semester, 1969-70), MR. WHEELER

CHAIRMAN (1970-72), MR. GAMBLE

ASTRONOMY 111 and Astronomy 112 are two separate courses in Descriptive Astronomy each covering the whole of Astronomy with somewhat different emphases. *Either may be used to satisfy one course of the science requirement.* The student who desires preparation for graduate work in Astronomy, Astrophysics, or Space Physics should pursue a modified major in Physics. This program normally will include one or more year courses in Astronomy. See Courses of Study in *Physics*.

ASTRONOMY 111—EXPLORATION OF THE GALAXY. This course stresses the region of space near the sun. Topics include time, observational techniques, the planets, space travel, the sun as a star, other stars, the galaxy and the origin of the solar system; three lectures and one 2-hour laboratory period each week. *No previous training in Physics or College Mathematics is required.* Offered each semester.

Mr. Mickelson, Mr. Gamble. 3

ASTRONOMY 112—EVOLUTION OF STARS AND GALAXIES. This course stresses the vast regions of space of which the whole solar system is a minute part. Topics include optical and radio observational techniques, stellar classifications, and their evolutions, models of stars, interstellar material, galaxies, cosmology and cosmogony; three lectures and one 2-hour laboratory period

each week. *No previous training in Physics or College Mathematics is required.* Offered each semester.

Mr. Winters, Mr. Mickelson. 3

ASTRONOMY 311-312—SPECIAL TOPICS IN ASTRONOMY. This course is to provide qualified students with the opportunity to pursue experimental and theoretical work in one or more of the areas of modern Astronomy. Prerequisites: Junior standing and consent.

Staff. 3 or 4

ASTRONOMY 361-362—DIRECTED STUDY.

Staff. 3

ASTRONOMY 451-452—SENIOR RESEARCH.

Staff. 4

ASTRONOMY 461-462—INDIVIDUAL WORK FOR HONORS.

Staff. 4



Dr. Gamble and
students in
Swasey Observatory



*Dr. Norris explains use of
trace elements to students*

BIOLOGY

PROFESSORS HARRY V. TRUMAN (part-time), K. DALE ARCHIBALD, GAIL R. NORRIS, ROBERT W. ALRUTZ, ROBERT R. HAUBRICH (on leave first semester, 1969-70)

ASSISTANT PROFESSORS ALLEN L. REBUCK, KENNETH V. LOATS, RALEIGH K. PETTEGREW, PHILIP E. STUKUS, KENNETH P. KLATT

CHAIRMAN (1968-71), MR. NORRIS

BIOLOGICAL RESERVE—MR. ALRUTZ, DIRECTOR; MR. WILLIAM SLATER, CURATOR

THREE BASIC CONCERNS of this department are graduate and professional school preparation of students, research contributions of the faculty shared, in principle at least, with students, and the expression of empathy between man and the rest of the living state.

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 basic preparation for graduate study.

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.

Major in Biology

A student majoring in Biology (B.A. or B.S.) must elect a minimum of 32 semester hours of credit in Biology, and may not elect more than 40 hours credit. Senior Research (451-452) and Honors Research (461-462) do not count towards the minimum requirements in Biology. General Zoology (110), General Botany (111), Molecular Biology (112), and Senior Seminar (400) are required of all majors.

Requirements for the Bachelor of Arts degree in Biology include, in addition to the above, one year of either Chemistry, Geology, or Physics (Chemistry rec-

ommended) and at least one course from each of the four groupings (A,B,C,D) noted below.

Requirements for the Bachelor of Science in Biology include, in addition to the above, the following: two years of Chemistry, one year of Physics, one semester of Geology, one year of either French, German, or Russian at the intermediate level and at least one course from each of the four groupings (A,B,C,D) noted below.

Biology course groupings are as follows: *Group A*—216, 225, 226, 233, 236, 250, 302; *Group B*—201, 211, 215, 223, 224, 234; *Group C*—218, 220, 221, 232; *Group D*—210, 213, 214, 222, 227, 240, 326.

General Education Offerings

The department offers four courses (100, 110, 111, 112) any one of which may satisfy a part of the science requirement in the General Education requirement of the college.

Biology 110, 111, and 112 serve as prerequisites for all courses in the department unless waived by proficiency or advanced placement. These three courses may be taken in any order—they are in no sense prerequisites for each other. It is suggested, however, that students entering 112 (Molecular Biology) have some experience in high school Chemistry. Any one of the above courses may be taken to meet a part of the science requirement.

BIOLOGY 100 (A-F)—GENERAL BIOLOGY. A series of courses primarily for the non-major student. The courses are designed to deal with selected principles of the science of the living state. One or more of these courses will be offered each semester but may not be counted toward the requirement for the major.

Staff. 3

- a. This course examines disease-causing microorganisms and their relationships to man's past, present, and future.
- b. Man and environment. Topics in genetics, evolution, population, and ecology will be investigated so as to provide a broad background of information and an awareness of the implications of these for man.
- c. An examination of human biology as represented in major organ systems, their functions and interrelationships. Both demonstrations and participation laboratories will augment lectures.
- d. Structure and function. A course emphasizing life processes of the human as well as problems and opportunities for man.

e. Plants and Man. Problems and applications of biology as they relate to plants. Genetic, evolution, and ecological interrelationships are emphasized.

f. Biological topics in genetics, evolution, population, and ecology are covered with an emphasis on relationships to man.

BIOLOGY 110—GENERAL ZOOLOGY. The animal kingdom is studied with emphasis upon concepts of evolution as expressed in genetics, development, problems of phylogeny, and comparative physiology-morphology. Laboratory work includes dissections, problems in genetics, physiology, and observations of living animals. (Offered to both majors and non-majors.) Staff. 3

BIOLOGY 111—GENERAL BOTANY. The fundamental biological principles of metabolism, growth and reproduction as expressed in the plant kingdom. Recognition of major plant groups and field identification of common trees or spring flora according to the season. (Offered each semester.)

Mr. Rebeck. 3

BIOLOGY 112—MOLECULAR BIOLOGY. A study of the living state at the molecular level. Such topics as the origin of the universe, the origin of the earth, the chemical basis of the origin of life, and cellular organization are considered. The biochemistry of cellular controls, metabolism, and genetics are considered with reference to evolution theory. (Offered each semester.) **Staff. 3**

BIOLOGY 201—HUMAN ANATOMY AND PHYSIOLOGY. A study of human anatomy and physiology, with laboratory based upon the consideration of a mammal, the cat. Some aspects of comparative physiology, behavior, and cell physiology are briefly considered with principal emphasis upon the systematic physiology of man. Prerequisite: 110 or consent of instructor.

Mr. Archibald. 4

BIOLOGY 210—INVERTEBRATE ZOOLOGY. Comparative anatomy, development, and physiology of non-chordate animals. Theories of phyletic origins and relationships are considered along with elements of natural history, behavior, and physiology of individuals. Certain principles of Limnology and Marine Biology are studied in the context of the above material. Prerequisite: 1 semester of Biology.

Mr. Haubrich. 4

BIOLOGY 211—COMPARATIVE ANATOMY. A comparative study of the anatomy and physiology of chordate animals with a study 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, and the cat. Prerequisite: 110 or consent of instructor.

Mr. Haubrich. 4

BIOLOGY 213—FIELD ZOOLOGY. The biology and identification of local organisms, emphasizing techniques of collection, preservation, preparation, and identification. (Offered first semester in 1969-70 and in alternate years.) Prerequisite: 110.

Mr. Alrutz. 3

BIOLOGY 214—ENVIRONMENTAL BIOLOGY. An introduction to the principles of environmental Biology by lectures, field prob-

lems, and individual projects. Extensive use is made of the Denison University Biological Reserve. Students registering for 4 credits will do a field problem. Prerequisite: 1 year of Biology or consent of instructor.

Mr. Alrutz. 3, 4

BIOLOGY 215—GENERAL BACTERIOLOGY. An introductory course in bacteriology emphasizing the general structure, occurrence and types of bacteria as well as the cultivation and nutrition of bacteria. Mechanisms of pathogenicity and host defense mechanisms are also discussed. Laboratory emphasis is on the fundamental techniques of isolating, culturing and staining of bacteria with identification of unknown organisms an integral part of the lab. Prerequisites: 112 or consent of the instructor.

Mr. Stukus. 4

BIOLOGY 216—ADVANCED BACTERIOLOGY. A course emphasizing the physiology of bacteria. Major emphasis will be given to the metabolic pathways found in bacteria and the applied aspects of bacteriology. Laboratory experiments demonstrate the basic techniques of modern experimental microbial physiology. Prerequisites: 215 or consent of the instructor.

Mr. Stukus. 4

BIOLOGY 218—PLANT MORPHOLOGY. Comparative study of the structure and life cycles of representative species of major plant groups with consideration of evolutionary relationships and development. Prerequisite: 111.

Mr. Loots. 4

BIOLOGY 220—SYSTEMATICS. A study of taxonomic principles and techniques and their application to the vascular plants. Laboratory and field emphasis is on the local spring flora. Prerequisite: 111 or consent.

Mr. Rebeck. 4

BIOLOGY 221—COMMUNITY ECOLOGY. An analysis of biological organization at the population, community, and ecosystem levels. Field studies include observation of local communities and investigation of methods of measuring and sampling communities. Laboratory and greenhouse experiments are designed to study species interactions. Prerequisites: 110, 111 or consent.

Mr. Rebeck. 4

BIOLOGY 222—PARASITOLOGY. 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. Prerequisite: 1 year of Biology or consent of instructor. Mr. Alrutz. 3

BIOLOGY 223—HISTOLOGY. Microscopic anatomy of vertebrates, chiefly mammals, including the making of microscopic preparations. Prerequisite: 110 or consent. Mr. Norris. 4

BIOLOGY 224—DEVELOPMENTAL BIOLOGY. A course to present embryological development as a single science in which the descriptive-morphological approach and the experimental-physiological and biochemical-genetical approaches are integrated, since all of these contribute to a more comprehensive understanding of the ontogenetic development of organisms. The laboratory work is based primarily upon a study of the comparative development of the vertebrate body. Certain invertebrates and the lower chordates, fish, frog, chick, mouse and pig, with some experimental work are included. Prerequisite: 111 or consent of instructor. Mr. Archibald. 4

BIOLOGY 225—GENETICS. A basic course in the principles of heredity, dealing with classical, neo-classical, and modern biochemical aspects of the subject, and concerned with both human and non-human material, as well as the genetic basis of variation as it bears on evolutionary theory. Prerequisite: 111 or consent of instructor. (4-hours credit with lecture and laboratory; 3-hours credit with lecture only.)

Mr. Archibald. 3, 4

BIOLOGY 226—MICROBIAL GENETICS. A course emphasizing the genetics of bacteria. Topics considered include mutation theory, mutagenic agents, the structure and replication of genetic material, recombinations, and known regulatory mechanisms found in bacteria. Laboratory experiments demonstrate the nature of variations and recombinations in bacterial cells. Prerequisites: 112, 215, or consent of instructor.

Mr. Stukus. 4

BIOLOGY 227—ENTOMOLOGY. Introductory study of insects, utilizing field and laboratory experiences. Prerequisite: 1 year of Biology or consent of instructor.

Mr. Alrutz. 3

BIOLOGY 232—PLANT PHYSIOLOGY. A lecture and laboratory 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 and development. Prerequisites: 111 with consent of instructor.

Mr. Loats. 4

BIOLOGY 233—GENERAL PHYSIOLOGY. A detailed study of physical principles involved in cell and organ function, emphasis being placed upon the organismic integration of mammalian systems. Laboratories are designed for investigation of these principles in both non-living and living systems. Prerequisites: 110 and 1 year Chemistry or consent of instructor.

Mr. Petegrew. 4

BIOLOGY 234—CELL BIOLOGY. This course is a study of the generalized cell and its physical environment, attention also being given to specific cell types differing from the generalized. Emphasis is placed on structure and on major biochemical processes specifically relating function and structure. The laboratory includes modern physiological techniques. Prerequisites: 110, 111, or 112; one year of chemistry or permission. (Offered Spring, 1971.) Mr. Petegrew. 4

BIOLOGY 236—RADIATION BIOLOGY. 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: 110, one year of chemistry, and junior standing or consent of instructor.

Mr. Norris. 4

BIOLOGY 240—BEHAVIOR. Analysis of individual behavior patterns and patterns of group behavior in organisms with consideration of relations between population size,

behavior, and physiology of individuals. The possible significance of behavioral factors as selective forces is also considered along with certain aspects of behavioral evolution. Prerequisite: 110 or consent of instructor.

Mr. Haubrich. 4

BIOLOGY 250—CHEMICAL FOUNDATIONS OF BIOLOGY. An introduction to the structural and functional relationships existing at the molecular level within the living state. Detailed consideration is given to certain levels of chemical organization which relate subcellular aspects of metabolism to that of the physiology of the intact organism. The laboratory, besides providing a chance to apply information obtained from lecture material, also emphasizes the application of standard techniques used in biochemical research concerned with the isolation and identification of selected biological materials. Prerequisite: Biology 112 or consent.

4

BIOLOGY 302—BIOCHEMISTRY. A study of the chemical and physio-chemical properties of living organisms. Concepts will be developed through a study of the physical and chemical properties of biological compounds and integration of various metabolic pathways in an attempt to understand the dynamics of living systems. The laboratory

will include the isolation and study of properties of biological compounds. Prerequisites: 112 and Chemistry 235 and 237 or 239. (Same as Chemistry 302.)

4

BIOLOGY 326—EVOLUTION AND BIOLOGICAL THEORY. A seminar course dealing with the relations of living organisms, the probable origin of life and of existing species, and the impact of the theories and ideas of organic evolution on man's thinking as they have progressed during the development of the science of Biology. Prerequisites: 2 semesters of introductory Biology, 225, and junior/senior standing or consent.

Mr. Archibald. 3

BIOLOGY 361-362—DIRECTED STUDY. A research problem (library or laboratory) which provides the opportunity for the qualified student to extend his interest beyond the limits of particular course offerings.

Staff. 3

BIOLOGY 400—SENIOR SEMINAR. Spectral considerations within the Science of Biology. A discussion-type seminar with students and faculty. Required of all majors during their senior year. (Offered both semesters). Prerequisites: Senior standing, Biology major.

Staff. 2

BIOLOGY 451-452—SENIOR RESEARCH. For seniors desiring work on an advanced research problem. Approval of student petitions is at the departmental level. Three copies of the research report are presented to the adviser of the project—one for the department files, one for the adviser, and one for the student. The grade is determined by the adviser in consultation with one other reader. In certain cases this course may become individual work for Honors. (Does not count toward minimal departmental requirements).

Staff. 4

BIOLOGY 461-462—INDIVIDUAL WORK FOR HONORS. Senior research which serves as a partial fulfillment for Honors. (Does not count toward minimal departmental requirements).

Staff. 4

TEACHING OF SCIENCE (See EDUCATION 311.)

Dr. Alrutz



CHEMISTRY

PROFESSORS DWIGHT R. SPESSARD, EDWARD M. COLLINS (part-time), JOHN B. BROWN, WILLIAM A. HOFFMAN (on leave second semester, 1969-70)

ASSOCIATE PROFESSORS GEORGE L. GILBERT, GORDON L. GALLOWAY

ASSISTANT PROFESSORS GWILYM E. OWEN, JR., RICHARD R. DOYLE, THOMAS A. EVANS

CHAIRMAN (1969-72) MR. GILBERT

SENIOR FELLOWS ROBERT BIEFELD, R. DANIEL BOHL, MARK H. MONTGOMERY

JUNIOR FELLOWS THOMAS E. PARKER, JOHN W. VALENTINE

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 minimal 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, including directed study, senior research, and honors.

Approved safety glasses are required in all laboratories.

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: 201, 202, 223-224, 225-226, 341-342, 352-353; Physics 121-122 or 221-222; Mathematics 121-122 and 221 or 251, or 211-212. A student electing to receive the B.S. degree must also complete 317, 331, and 344 or 353. A major who elects German for the language requirement and takes certain advanced courses will be certified to the American Chemical Society. The department requires the advanced Graduate Record Examination as part of the Comprehensive Examination.

CHEMISTRY 103—CHEMISTRY TODAY. A topical introduction to Chemistry with emphasis on correlations and predictions based on the periodic chart; a study of organic molecular systems as well as a discussion of chemical systems in life processes. Three class periods and one laboratory period a week. Staff. 4

CHEMISTRY 108—INTRODUCTION TO COLLEGE CHEMISTRY. A rigorous course with emphasis on nomenclature, qualitative and quantitative relationships in chemical reactions, and certain descriptive Chemistry of the elements. Three class periods a week. *Does not satisfy the science requirement.*

Staff. 3

CHEMISTRY 201—(I) GENERAL COLLEGE CHEMISTRY. An intensive qualitative and quantitative study of basic chemical principles: atomic and molecular structure, periodicity of chemical properties, states of matter, and selected examples of chemical reactions. Four class periods and one laboratory period a week. Staff. 5

CHEMISTRY 202—(II) INORGANIC CHEMISTRY AND QUANTITATIVE TECHNIQUES. A study of chemical reactions and their correlation with generalizations in the periodic system; an examination of solution equilibria using precipitation, neutralization, oxidation-reduction, and complex ion reactions. Lab work will include inorganic synthesis, separations of ions in solution, and simple techniques of quantitative measurement applied to the determination of percentage composition, equilibrium constants, and reliability of data. Three class periods and two laboratory periods a week. Staff. 5

CHEMISTRY 223-224—(III and IV) ORGANIC CHEMISTRY. The Chemistry of aliphatic, aromatic, and heterocyclic compounds of carbon. Three lectures a week. Registration *must* be accompanied by a concurrent laboratory course, 236-237 or 238-239. Prerequisite: 209.

Messrs. Doyle, Evans, Spessard. 3

CHEMISTRY 225-226—ORGANIC CHEMISTRY LABORATORY. Techniques of organic laboratory practice, preparation of typical organic compounds to illustrate the reactions discussed in 234-235, and an introduction to qualitative organic analysis. Two laboratory periods a week, to be taken concurrently with 234-235 by all students intending to major in Chemistry.

Messrs. Doyle, Evans, Spessard. 2

CHEMISTRY 227-228—ORGANIC CHEMISTRY LABORATORY. Laboratory work in organic Chemistry similar to that in 236-237. One laboratory period a week, to be taken concurrently with 234-235 by a student *not* planning to major in Chemistry.

Messrs. Doyle, Evans, Spessard. 1

CHEMISTRY 302—BIOCHEMISTRY. A study of the chemical and physico-chemical properties of living organisms. Concepts will be developed through a study of the physical and chemical properties of biological compounds and integration of various metabolic pathways in an attempt to understand the dynamics of living systems. The laboratory will include the isolation and study of properties of biological compounds. Prerequisites: 224 and 226 or 228 and Biology 112. (Same as Biology 302.)

Mr. Doyle. 4

Ebaugh Laboratories and Herrick Hall



CHEMISTRY 317—INTERMEDIATE INORGANIC CHEMISTRY. A study of bonding, structure, and reactivity in inorganic compounds. Three lectures a week. Prerequisites: 235 and 342 or taken concurrently.

Mr. Galloway, Mr. Gilbert. 4

CHEMISTRY 331—ANALYTICAL CHEMISTRY. A discussion of the theoretical background of selected topics in the areas of absorption spectroscopy, electrochemistry, and phase change or partition processes. Three lectures a week. Prerequisite: 342 or taken concurrently.

Mr. Galloway, Mr. Hoffman. 4

CHEMISTRY 341-342—PHYSICAL CHEMISTRY. 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.

Mr. Brown, Mr. Owen. 3

CHEMISTRY 344—PHYSICAL CHEMISTRY LABORATORY. 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.

2

CHEMISTRY 352-353—ADVANCED LABORATORY. A combination of discussion and laboratory periods to familiarize the student with the practice and theory of selected instruments and techniques now widely applied to chemical investigations. Laboratories and one discussion period a week. Prerequisite: 235, 237, or consent of instructor.

Staff. 3, 3

CHEMISTRY 361-362—DIRECTED STUDY. Offered to juniors and seniors. Prerequisite: 235 or 342 or consent of instructor.

Staff. 3

CHEMISTRY 421—INTERMEDIATE ORGANIC CHEMISTRY. 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. Three lectures a week. Prerequisites: 235, 237.

Messrs. Evans, Owen, Spessard. 3

CHEMISTRY 441—INTERMEDIATE PHYSICAL CHEMISTRY. A selection of topics from the areas of crystal structure emission spectroscopy, atomic and molecular structure, wave mechanics, statistical mechanics, and colloid chemistry. Normally meets for three class periods a week, but selected experimental projects may be substituted for equivalent class hours. Prerequisite: 342.

Mr. Brown, Mr. Evans. 3

CHEMISTRY 451-452—SENIOR RESEARCH. May not be elected without prior staff approval. Prerequisite: 352.

Staff. 4

CHEMISTRY 461-462—INDIVIDUAL WORK FOR HONORS. Research for qualified seniors under faculty supervision. A thesis is required.

Staff. 4

TEACHING OF SCIENCE (See EDUCATION 311.)

Dr. Gilbert with student



Dr. Keizer is chairman of classics

CLASSICS

ASSISTANT PROFESSOR MERVYN M. KEIZER

CHAIRMAN (1968-70) MR. KEIZER



Courses in Latin

LATIN 211—BEGINNING LATIN AND INTRODUCTION TO ROMAN HISTORY. Accidence, syntax, and vocabulary; graded selections of prose and verse; introduction to Roman history. Prerequisite: 1-2 years of high school Latin or consent. 4

LATIN 212—CICERO AND INTRODUCTION TO LATIN LITERATURE. Review of accidence, syntax, and vocabulary; prose composition; sight translation; Cicero in *Catilinam* I-IV; graded selections of verse; introduction to Latin literature. Prerequisite: 211 or consent. 4

LATIN 311—VIRGIL AND GOLDEN AGE LITERATURE I. Prose composition; sight translation; vocabulary review; prose texts for rapid reading; Virgil, *Eclogues*, *Georgics*, *Aeneid* I-VI. Prerequisite: 212 or consent. 4

LATIN 312—VIRGIL AND GOLDEN AGE LITERATURE II. Prose composition; sight translation; vocabulary review; prose texts for rapid reading; Virgil, *Aeneid* VII-XII. Prerequisite: 311 or consent. 4

LATIN 361-362—DIRECTED STUDY. 3

LATIN 411—HORACE, LATIN LYRIC AND ROMAN SATIRE. Prose composition and sight translation optional; Latin prose style; Horace, *Odes*, *Epodes*, *Satires*, *Epistles*. Prerequisite: 312 or consent. 4

LATIN 412—OVID, LATIN POETIC STYLE AND LATIN ELEGIAC VERSE. Prose composition and sight translation optional; Latin poetic style; Tibullus, Propertius, Ovid. Prerequisite: 411 or consent. 4

Courses in Greek

GREEK 111—BEGINNING GREEK AND INTRODUCTION TO GREEK HISTORY. Accidence, syntax, and vocabulary; graded selections of prose and verse; introduction to Greek history. Prerequisite: Consent of the instructor. 4

GREEK 112—BEGINNING GREEK AND INTRODUCTION TO GREEK LITERATURE. Review of accidence, syntax, and vocabulary; Xenophon, *Anabasis*; graded selections of verse; introduction to Greek literature. Prerequisite: 111. 4

GREEK 211—INTRODUCTION TO GREEK DRAMA I. Prose composition; sight translation; vocabulary review; Euripides, *Alceste*; prose texts for rapid reading. Prerequisite: 112. 4

GREEK 212—INTRODUCTION TO GREEK DRAMA II. Prose composition; sight translation; vocabulary review; Euripides, *Medea*; prose texts for rapid reading. Prerequisite: 211. 4

GREEK 361-362—DIRECTED STUDY. 3

Courses in Classical Civilization

CLASSICS 101—GREEK LITERATURE IN TRANSLATION. Offered in 1970-71. 4	CLASSICS 202—CLASSICAL MYTHOLOGY. Offered in 1970-71. 4
CLASSICS 102—LATIN LITERATURE IN TRANSLATION. Offered in 1970-71. 4	CLASSICS 205—GREEK DRAMA. Offered in 1969-70. 4
CLASSICS 103—GREEK AND ROMAN EPIC POETRY. Offered in 1969-70. 4	CLASSICS 321—THE HISTORY OF GREECE. Same as History 321. Offered in 1970-71. 4
CLASSICS 201—THE DEVELOPMENT OF CRITICAL IDEAS IN ANTIQUITY. Offered in 1969-70. 4	CLASSICS 323—THE HISTORY OF ROME. Same as History 323. Offered in 1969-70. 4

In 1971-72 and 1972-73 the department intends to offer, in addition, courses in Greek and Roman Political Theory and Institutions and courses in Religion. Each of these courses will carry 4 hours of credit.

DANCE

ASSOCIATE PROFESSOR (MRS.) VIRGINIA C. NORTHROP

VISITING LECTURER RICHARD D. KIMBLE (part-time)

CHAIRMAN (1969-72), MRS. NORTHROP

SENIOR FELLOW DONNA MILLS

JUNIOR FELLOW LYNN BOND

THE DANCE CURRICULUM, which was incorporated into the Fine Arts Program in 1966, is designed to prepare students for advanced study and/or the teaching of Dance in educational or community institutions. It also provides an atmosphere conducive to the cultivation and maturation of the artist's own creative and aesthetic talents. To achieve these goals, combined major programs are offered in *Theatre Arts and Dance* and *Physical Education and Dance*.

As with the other Arts, Dance has the secondary purposes of providing (1) a cultural stimulus to the entire University and (2) the opportunity for participation in creative endeavors without necessarily electing a major in the field.

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 Dance 104, 130, 305, 306, 361-362, and 423; Theatre Arts 111, 215-216, and 323-324. This major prepares the student for advanced study and for teaching the related arts in recreational agencies or in a college.



Mrs. Northrop directs dancers

Major in Physical Education (Emphasis in Dance)

A COMBINED MAJOR in Physical Education and Dance, with an emphasis on Dance, may be earned. 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. Required courses are Dance 104, 130, 305, 306, 361-362, and 423; Biology 112, 111 or 213, and 201; Psychology 101; Physical Education 319, 320, 443, and 463. If the student wishes State Certification for public school teaching, further required courses including Physical Education 248 and Education 213, 217, 415, 416, 420, and 445, must be added.

The student should also take four hours of dance technique in graded progressive sequences and possibly eight hours of Honors work involving Advanced Composition, Production, and Methods of Teaching.

DANCE 104—DANCE CLUB. The concert performing group. Prerequisites: 1 year of apprenticeship and membership by election.
1/2-2

DANCE 130—BEGINNING, INTERMEDIATE, AND ADVANCED SECTIONS. Technique in graded progressive sequence in Modern Dance and/or Ballet.
Staff. 1-5

DANCE 305—BEGINNING COMPOSITION FOR DANCE. An introductory course in the rhythmic structure of dance including problems in line, contour, dynamics; 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. Mrs. Northrop. 2

DANCE 306—INTERMEDIATE COMPOSITION FOR DANCE. Problems in solo and group choreography, designed and directed by class members. Prerequisite: 305.
Mrs. Northrop. 2

DANCE 361-362—DIRECTED STUDY. Special problems in composition; theory; teaching of Dance on various levels.
Staff. 3

DANCE 423—DANCE AS AN ART FORM. Historical and philosophical concepts. Theory, practice, and materials of teaching.
Mrs. Northrop. 3

DANCE 451-452—SENIOR RESEARCH.
Staff. 4

DANCE 461-462—INDIVIDUAL WORK FOR HONORS.
Staff. 4



Dr. Henderson conducts Economics seminar

ECONOMICS

PROFESSOR WILLIAM L. HENDERSON, DANIEL O. FLETCHER

VISITING LECTURER ROBERT D. PATTON (part-time) (first semester, 1969-70)

ASSISTANT PROFESSORS WILLIAM K. CHUNG, STANLEY W. HUFF, LARRY C. LEDERBUR, PAUL G. KING, THOMAS G. BURNLEY, FRANK L. SLESNICK

INSTRUCTOR HENRY M. PAUSCH (part-time)

CHAIRMAN (1968-1971), MR. HENDERSON

SENIOR FELLOWS F. DOUGLAS REARDON, EMILY RIEKER, R. SCOTT TRUMBULL, DAVID B. WALLER

Major in Economics

THE COURSES OFFERED by the Department of Economics deal with fundamental problems involved in the social process of utilizing scarce resources to satisfy human wants. The primary goals of this department are threefold:

First, to promote an understanding of basic economic aspects of society and to provide a base for intelligent and effective participation in modern society. Whatever one's interests or career plans, intellectual curiosity about the functioning of the economy and a willingness to engage in analysis are prime requisites for success.

Second, the department provides essential background in Economics for students considering careers in business and government and for graduate study leading to careers in business and business economics, government and international affairs, high school and college teaching, industrial relations, and law.

Third, the department attempts to furnish a basic foundation in Economics for students planning to pursue graduate studies in Economics.

Combined Major in Mathematics and Economics

A STUDENT INTERESTED in quantitative aspects of Economics who wishes to work for advanced degrees in Business or Economics with a strong Mathematics background may elect this combined major. Requirements are Mathematics 251, 307, 308, and 351, and Economics 200, 301, 302, 450a, 450c, and two additional Economics courses at the 300 level.

Departmental Requirements

WHILE THE DEPARTMENT will advise each student on the composition of his program in consideration of his personal objectives, all Economics majors are required to take Economics 200, 301, 302, and 450. Majors must have a minimum of 24 credit hours in the department, including 200.

The student will find it desirable to take 200 in his first two years. Students who have had an introduction to Economics in their secondary education should arrange with the department to take the proficiency examination in 200. Those who are successful will be given credit according to the practice of the University.

Recognizing a rapidly growing need for skills in quantitative analysis and attempting to provide the necessary background for rigorous investigation of the available wealth of business and economic data, the department requires all majors to take at least Mathematics 102 and 121. Students are encouraged to enroll in these courses in their freshman and sophomore years, in order to apply their Mathematics to advanced Economics courses. Students who have strong interest in both Mathematics and Economics-Business are encouraged to enroll in Mathematics 221-222 and 307-308.

In recent years increasing numbers of graduates planning careers in Business continue their formal education in graduate schools of business. A student pursuing this objective may major in any one of a large number of fields with Economics as one possibility. However, the student planning to attend a graduate school of business is advised to take 200, 313, and 323, as well as the minimum requirement of Mathematics 102 and 121.

Hunsberger Memorial Investment Fund

A FUND OF MORE THAN \$10,000 was established in 1966 in honor of Harry A. Hunsberger, Jr., an Economics major in the Class of 1966, by the Hunsberger family and friends. This memorial fund was initiated to provide practical investment experience for Denison University students. The fund is designed to be operated by students and to serve as a learning experience. Investment decisions made by student members of the Hunsberger Investment Club may be made in stocks, bonds, debentures, warrants, rights, and similar securities. The fund is administered by the staff of the Department of Economics but the operation of the fund is managed exclusively by students. There is no stipulation limiting the number or majors of students who can participate in this program. William H. Bowie is serving as student administrator of the fund this year.

ECONOMICS 200—PRINCIPLES AND PROBLEMS. This course presents an analysis of the private enterprise system and provides fundamental economic principles and working tools prerequisite for economic analysis.

Staff. 4

ECONOMICS 249-250—ACCOUNTING SURVEY. A survey 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. Course credit may not be counted toward a major in Economics.

Mr. Pausch. 3

ECONOMICS 300—CONTEMPORARY ECONOMIC ISSUES AND POLICY. A survey of current economic problems with special emphasis on the causal factors and the policies adopted or available to bring about solutions. Problems will be selected to reflect current issues. Open to economics and non-economics majors. Credit may not be counted toward the minimum hours required in Economics. Prerequisite: 200.

Staff. 4

ECONOMICS 301—MACRO ECONOMIC ANALYSIS. An examination of the determinants of national income, employment, and the price level in the economics system, including analysis of consumption and saving, private investment, government fiscal policy, business fluctuations, and the interactions between money and national income. Prerequisite: 200.

Mr. King, Mr. Slesnick. 4

ECONOMICS 302—MICRO ECONOMIC ANALYSIS. An examination of the basic assumptions and methods of analysis employed in micro economic theory, including demand analysis, production and cost relationships, market structures, distribution theory, general equilibrium, and welfare economics. Special emphasis is given to showing how theoretical analysis is applied to business problems through the use of calculus and statistics. Prerequisites: 200, Mathematics 101, or equivalent.

Mr. Chung, Mr. Fletcher. 4

ECONOMICS 310—PUBLIC FINANCE. Public revenues, expenditures, debt, and financial administration, with emphasis on theory and practice of taxation and problems of fiscal policy. Prerequisite: 200 or consent of instructor. Mr. Henderson, Mr. Slesnick. 4

ECONOMICS 311—HISTORY OF ECONOMIC THOUGHT. 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. Prerequisites: 200 and consent of instructor.

Mr. Ledebur. 4

ECONOMICS 312—COMPARATIVE ECONOMIC SYSTEMS. 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. Prerequisites: 200 and consent of instructor.

Mr. Henderson. 4

ECONOMICS 313—INDUSTRIAL ORGANIZATION AND THE PUBLIC CONTROL OF BUSINESS. An evaluation of governmental policies to encourage or restrain competition in view of (1) the general problem of economic power in a capitalistic society, and (2) the modern industrial structure and the types of business behavior and performance which it implies. Prerequisites: 200 and consent of instructor.

Mr. Fletcher. 4

ECONOMICS 314—INTERNATIONAL ECONOMICS. The theory of international trade and the effects of trade on economic efficiency. Balance of payments disequilibria and the mechanisms and policies of adjustment procedures. Relationships between domestic income and trade. Regional economic integration. Prerequisite: 200.

Mr. Burney, Mr. Chung. 4

ECONOMICS 315—MONEY AND BANKING. Principles of money, credit, and banking, including a study of the influence of money on levels of national income, prices, and employment. Development of modern monetary and banking practices and policies. Prerequisite: 200. Mr. Burney, Mr. Huff. 4

ECONOMICS 316—ECONOMIC DEVELOPMENT. A survey of the structure and problems of the underdeveloped economies, with particular emphasis on the major determinants of economic growth. Prerequisite: 200.

Mr. King, Mr. Ledebur. 4

ECONOMICS 317—LABOR ECONOMICS. The Economics of the labor market, the assumptions upon which divergent theories about—and policies in regard to—the labor market rest, and an analysis of significant empirical studies. The union movement is viewed as an outgrowth of the problems the worker faces from the supply side of the market. Schemes for minimizing economic insecurity are also analyzed. Prerequisite: 200.

Mr. Huff. 4

ECONOMICS 318—ECONOMIC DEVELOPMENT OF THE UNITED STATES. Analysis of the determinants of American economic growth and development, and the evolution of American economic institutions with emphasis on the interpretation of these factors in the light of contemporary economic theory. Prerequisite: 200.

Staff. 4

ECONOMICS 320—URBAN ECONOMICS. An examination of the economic problems and remedial alternatives in urban areas. This includes analysis of such problems as the declining environmental quality of urban areas, urban sprawl, urban blight, the declining inner city, mal-distribution of incomes and job opportunities, air and water pollution, waste disposal, urban transportation systems, and racial enclaves. The causal

factors creating these urban dilemmas and the policy alternatives available for the improvement of the quality of urban life are examined and remedial policy measures evaluated. Prerequisite: 200.

Mr. Ledebur. 4

ECONOMICS 323—MANAGERIAL ECONOMICS. Theoretical analysis of management decision making with emphasis on production and profit problems for the firm. Prerequisite: 200.

Mr. Burney. 4

ECONOMICS 361-362—DIRECTED STUDY.

Staff. 3

ECONOMICS 449-450—SEMINARS. Open to advanced students with the consent of the instructor. These courses will involve the preparation of a research paper and be offered as registration warrants, in the following fields:

- Econometrics.
- Financial Analysis of the Firm.
- Modern Economic Analysis.
- Economic Research.
- Other. (Advanced material in all of the areas of specialization offered by the department.)

Staff. 4

ECONOMICS 451-452—SENIOR RESEARCH.

Staff. 4

ECONOMICS 461-462—INDIVIDUAL WORK FOR HONORS.

Staff. 4

TEACHING OF SOCIAL STUDIES (See EDUCATION 320.)

Planning for Philadelphia Semester





Dr. Gallant (left) and Mr. Smith (right) meet with students interested in teaching program

EDUCATION

ASSOCIATE PROFESSOR THOMAS F. GALLANT

ASSISTANT PROFESSOR R. TYLER SMITH, AND OTHERS

CHAIRMAN (1967-70), MR. GALLANT

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 seeking teacher certification 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 a 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, Heath, Newark, Mt. Vernon, and Licking County. These assignments are made by the Department of Education but *responsibility for transportation to the school rests with the student.*

Certification for Teaching in Secondary Schools

REQUIREMENTS FOR CERTIFICATION to teach in the secondary schools (grades 7-12) of Ohio, and in most other states, may be met by completing course work in the following three categories:

Professional education (19 semester hours): Education 217, 213, 420, a course in methods of teaching (either in the major teaching field or Education 326), and student teaching (Education 415). (*See also the alternate plan, the Undergraduate Internship in Teacher Education.*)

General Education (30 semester hours): The student who meets Denison's general education program will automatically fulfill the state requirement.

Teaching fields: The semester hours required varies for different fields. This information may be obtained at the Department of Education office.

A student interested in teaching should consult with a member of the Department of Education. Early planning will help him to meet the requirements for certification in any state in which he may wish to teach. Enrollment in the teacher education program must be approved by the Committee on Teacher Education. Applications should be made as soon as possible after the first semester of the freshman year.

The Undergraduate Internship in Teacher Education

THIS NEW PROGRAM is being initiated in selected teaching fields during the 1970-71 academic year. One factor in determining these fields will be the extent of student interest and early commitment. The program will provide an *alternate* plan for fulfilling the professional education requirements for teacher certification.

ELIGIBILITY FOR APPLICATION: (1) Graduation from Denison no earlier than the first semester of the 1970-71 academic year; (2) Previous course work in professional education limited to Psychology/Education 217; and (3) Demonstrated interest in and aptitude for the profession of teaching.

Interested students may obtain more information from the Department of Education.

PHASE 1: PSYCHOLOGY/EDUCATION 217—CHILD AND ADOLESCENT DEVELOPMENT.

3

PHASE 2: FIELD EXPERIENCE WITH CHILDREN AND YOUTH. The student will design and carry out, with prior approval of the Department of Education, a program which will afford him the opportunity of observing and becoming involved with school aged children who are engaged in learning experiences. The program design may include one or more of such activities as tutoring, summer camp counseling, church school

teaching, or observing and assisting in a school during vacations or an intersession. Student involvement for a minimum of 40 contact hours may be extended over a period of one or more years, but normally should not be concluded more than one year prior to the beginning of the internship. The successful completion of this program is a prerequisite for Education 417.

Non-credit

PHASE 3: EDUCATION 417—INTERNSHIP. (See course description in regular listing)

16

Departmental Major and Degree

A STUDENT PREPARING for teacher certification may qualify for any of the degrees described in PLAN OF STUDY. With certain exceptions, the departmental major can be utilized as one of the teaching fields. Students do not major in Education.

EDUCATION 213—SECONDARY SCHOOL CURRICULUM. 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.

Mr. Gallant. 3

EDUCATION 217—CHILD AND ADOLESCENT DEVELOPMENT. Psychological development especially during early periods of growth. (Same as **PSYCHOLOGY 217**.) Prerequisite: General Psychology. 3

EDUCATION 311—TEACHING OF SCIENCE. Prerequisite: 217.

Mr. Truman. 3

EDUCATION 315—TEACHING OF MUSIC IN THE ELEMENTARY SCHOOL. Alternates with 316. Prerequisite: 217. (Offered in 1970-71 and in alternate years.)

Mr. Hunter. 3

EDUCATION 316—TEACHING OF MUSIC IN THE SECONDARY SCHOOL. Alternates with 315. Prerequisite: 217. (Offered in 1970-71 and in alternate years.)

Mr. Hunter. 3

EDUCATION 320—TEACHING OF SOCIAL STUDIES. Prerequisite: 217.

Mr. Gallant. 3

EDUCATION 326—GENERAL AND SPECIAL METHODS OF TEACHING. Prerequisite: 217.

Mr. Gallant. 3

EDUCATION 329-330 (BLOCK A)—METHODS, MATERIALS, AND TECHNIQUES OF PHYSICAL EDUCATION AND ATHLETICS.

The primary objectives of this block of study are to present the three major bodies of knowledge which will provide the Physical Education major with an understanding of the progression through which a physical education for elementary and secondary

Student teaching German in Newark High School (Ohio)



school students should develop. Such activity will include (1) the techniques of performing skills for efficient and skillful movement, (2) the methods of teaching Physical Education for optimum participation and learning, and (3) the curriculum and materials of Physical Education based on needs and interests. Students may elect any or all of the following units within this block for credit:

- UNIT A1—METHODS AND MATERIALS
(Weeks 1-3). 2
- UNIT A2—LIFETIME SPORTS (Weeks 4-8). 3
- UNIT A3—TEAM SPORTS (Weeks 9-14). 3
Staff. 8

EDUCATION 331—TEACHING OF ENGLISH.
Prerequisite: 217. Miss Lewis. 3

EDUCATION 333—TEACHING OF LATIN.
Prerequisite: 217. (Offered only on demand.) 3

EDUCATION 335—TEACHING OF MATHEMATICS. Prerequisites: 217 and Mathematics 122. (Offered in 1970-71 and in alternate years.) 3

EDUCATION 339—TEACHING OF SPEECH.
Prerequisite: 217. Mr. Hall. 3

EDUCATION 341—TEACHING OF PUBLIC SCHOOL ART. Prerequisite: 217. (Offered second semester in 1969-70 and in alternate years.) 3

EDUCATION 343—TEACHING OF MODERN LANGUAGES. Prerequisite: 217. (Offered in 1970-71 and in alternate years.)
Mr. F. L. Preston. 3

EDUCATION 345-346—SPECIAL PROBLEMS. Independent work on selected topics under the guidance of staff members. Prerequisite: Consent of chairman. Staff. 2-4

EDUCATION 361-362—DIRECTED STUDY.
Staff. 3

EDUCATION 415—STUDENT TEACHING. Eligibility: (1) cumulative grade-point average of 2.5, (2) grade-point average of 3.0 in major teaching field. Exceptions to the foregoing requirements will be made only by the Teacher Education Committee. This committee will also grant final approval for admission to the student teaching program, subject only to the student's acceptance by the officials of the school in which the student teaching is to take place. Normally, a student should not take more than 15 semester-hours including student teaching during the semester(s) he seeks experience in this area. Students may enroll for 6-8 semester hours credit. To receive 6 hours credit the student teaches two classes, five days each week, for one semester. To receive 8 hours credit the student participates in additional related work. A seminar is held each Thursday at 4 p.m. for all student teachers. Prerequisites: 213, 217, and Methods course. (Offered each semester.)
Director and Staff. 6-8

EDUCATION 417—INTERNSHIP. An integrated program containing the following components: curriculum and methods of instruction (4 sem. hrs.), the school and society (4 sem. hrs.), practicum in teaching (8 sem. hrs.). The internship is designed to give the student a full-time off-campus experience. Academic work is structured into the program, with the initial portion of the student's involvement being devoted to extensive on-the-job observation, reading, and study. During the early weeks, regular seminars will be held with University and school personnel. This aspect of the work will gradually phase out as the student assumes more and more classroom responsibilities, culminating in a period of several weeks of full-time teaching and extra-curricular duties. Prerequisites: Phase 2, Internship program, and second semester junior status. 16

EDUCATION 420—PHILOSOPHY OF EDUCATION. 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 PHILOSOPHY 420.) Mr. Santoni. 4

ENGLISH

PROFESSORS LENTHIEL H. DOWNS, PAUL L. BENNETT, (MISS) NANCY E. LEWIS,
KENNETH B. MARSHALL, DOMINICK P. CONSOLO

ASSOCIATE PROFESSORS RICHARD KRAUS, QUENTIN G. KRAFT, JOHN N. MILLER,
TOMMY R. BURKETT

ASSISTANT PROFESSORS C. J. STONEBURNER, WILLIAM W. NICHOLS (on leave
all year), FREDERIC JACOBS, FRANCOIS A. CAMOIN

INSTRUCTORS HERMAN NIBBELINK, ANTHONY HAMMER

GLCA TEACHING ASSOCIATE R. DARBY WILLIAMS

CHAIRMAN (1968-71), MR. MARSHALL

ADDED TO THE DEPARTMENTAL staff for varying periods of residence each year will be established writers, who will hold the endowed Harriet Ewens Beck lectureship in English. Beck writers who have been in residence are Miss Eudora Welty, Mr. Jon Silkin, Mr. William Stafford, Mr. Granville Hicks, Mr. Malcolm Cowley, Mr. Peter Taylor, Mr. Howard Nemerov, and Miss Joyce Carol Oates. Among the visitors to campus in 1969-70 will be Miss Vassar Miller, Mr. Richard Eberhart, Mr. Robert Bly, and Mr. Jack Matthews.

Major in English

GENERAL REQUIREMENTS. A student majoring in English must elect a minimum of 29 semester-hours of credit in English.

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 210 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 407-408 or 361-362 or 461-462.



Dr. Marshall with student

ENGLISH 101—INTRODUCTION TO COMPOSITION AND LITERATURE. This course offers practice in writing, mainly expository, and experience in analytical reading of major types of literature. (To be taken in the freshman year, either semester.)

Staff. 3

ENGLISH 210—MAJOR ENGLISH WRITERS. Selected works by eight to twelve English writers, including Chaucer, Donne or Milton, Pope or Swift, Wordsworth or Keats, Tennyson or Browning, and a novelist.

Staff. 4

ENGLISH 215—SHAKESPEARE. A study of the principal plays. *Required of English majors.* (Offered each semester.)

3

ENGLISH 217—NEWSWRITING AND EDITING. 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.*)

2

ENGLISH 218—THE BIBLE AS LITERATURE. A comparative literature approach to about half of the books of the Old and New Testaments in a modern reader's form of the King James' translation with emphasis on story content and poetic idioms.

Mr. Downs. 4

ENGLISH 219—20th CENTURY BRITISH AND AMERICAN POETRY. Hardy, Yeats, Eliot, Stevens, and other 20th Century poets.

Staff. 3

ENGLISH 220—20th CENTURY BRITISH AND AMERICAN FICTION. Selected works by Conrad, Joyce, Lawrence, Hemingway, Faulkner, and several other 20th Century writers of fiction.

Staff. 4

ENGLISH 230—AMERICAN LITERATURE. Selected works by writers of the 19th Century, including Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, Twain, James, and Crane.

Staff. 4

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

Staff. 3

ENGLISH 240—THE MODERN DRAMA. A study of drama from Ibsen to the present, with emphasis upon the works of British and American playwrights. Mr. Downs. 4

ENGLISH 257—NARRATIVE WRITING. A fiction writing workshop.

Mr. Bennett, Mr. Kraus. 3

ENGLISH 267—ESSAY AND ARTICLE WRITING.

Mr. Bennett. 3

ENGLISH 277—POETRY WRITING.

Mr. Bennett, Mr. Miller. 3

ENGLISH 310—STUDIES IN LITERATURE. An intensive study of selected writers or works. May be taken more than once for credit.

Staff. 4

ENGLISH 323—MILTON AND THE 17th CENTURY. A study of Milton's *Paradise Lost* and selected shorter poems with some consideration of the 17th Century literary background.

Miss Lewis. 4

ENGLISH 324—THE ROMANTIC MOVEMENT IN ENGLAND. A study of the works of Wordsworth, Coleridge, Byron, Shelley, and Keats.

Mr. Marshall. 4

ENGLISH 329—RENAISSANCE DRAMA. A study of the drama in England from 1580 to 1642 (exclusive of Shakespeare), with emphasis upon the works of Marlowe, Jonson, Webster, and Ford.

Mr. Jacobs. 4

ENGLISH 331—NON-DRAMATIC LITERATURE OF THE RENAISSANCE. A study of Golden, Baroque, and other writers from Sydney through Marvell, including Spenser, Davies, Bacon, Jonson, Donne, and Herbert, with emphasis especially on verse and imaginative prose, but with some attention directed to the critical prose of the period.

Mr. Stoneburner. 4

ENGLISH 332 — CHAUCER AND MIDDLE ENGLISH LITERATURE. The central concerns of the course, *Troilus and Criseyde* and *The Canterbury Tales*, are considered in relation to other literature in the period.

Mr. Consolo. 4

ENGLISH 335—VICTORIAN PROSE AND POETRY. A study of Tennyson, Browning, Arnold, Carlyle, Ruskin, Mill, and Newman.

Mr. Marshall. 4

Denison University Bulletin

ENGLISH 339—THE AGE OF WIT AND SATIRE. The poetry, prose, and drama of the Restoration and 18th Century. Emphasis on Dryden, Swift, and Pope.

Mr. Burkett. 4

ENGLISH 341—THE ENGLISH NOVEL. A study of selected novels, including such writers as DeFoe, Fielding, Sterne, Thackeray, Austen, Emily Bronte, Dickens, and Hardy.

Mr. Kraft, Mr. Marshall. 4

ENGLISH 342—STUDIES IN THE MODERN NOVEL. Selected works by recent writers of fiction, such as Graham Greene, Anthony Powell, C. P. Snow, William Styron, Saul Bellow, and John Hawkes.

Mr. Consolo. 4

ENGLISH 346—THE ENGLISH LANGUAGE. A study of the language and its development.

Mr. Burkett. 3

ENGLISH 349—READINGS IN EUROPEAN LITERATURE. Selected complete works in translation from Dante, through Cervantes, Moliere, Goethe to Ibsen and Tolstoy.

Mr. Downs. 4

ENGLISH 350—MODERN EUROPEAN LITERATURE. Selected major 20th Century works in translation, including such writers as Proust, Kafka, Pirandello, Unamuno, Lorca, Rilke, Gide, Kazantzakis, Camus, and Thomas Mann.

Mr. Downs. 4

ENGLISH 361-362—DIRECTED STUDY.

Staff. 3

ENGLISH 373—THE AMERICAN LITERARY RENAISSANCE. A seminar dealing with authors to be chosen from Poe, Emerson, Thoreau, Hawthorne, Melville, and Whitman.

Mr. Consolo. 4

ENGLISH 375—AMERICAN REALISM AND NATURALISM. A seminar dealing with the rise, development, and influence of realism and naturalism in the works of such writers as Howells, James, Norris, Crane, Dreiser, and Faulkner.

4

ENGLISH 407-408—SEMINAR IN WRITING.

Mr. Bennett. 3

ENGLISH 410—LITERARY CRITICISM. The theory of literature, its criticism and scholarship, studied in relation to widely known poems, plays, and novels.

Staff. 4

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

Miss Lewis. 4

ENGLISH 430—PROBLEMS IN LITERATURE. Offers the senior the opportunity of having a self-proposed, self-directed, and self-evaluated project in his major. The project requires staff approval, offers staff consultation, and includes some form of sharing with others the results of the student's work.

Staff. 4

ENGLISH 451-452—SENIOR RESEARCH.

Staff. 4

ENGLISH 461-462—INDIVIDUAL WORK FOR HONORS.

Staff. 4

TEACHING OF ENGLISH (See EDUCATION 331.)

Dr. Kraus with Shakespeare class



*Dr. Graham
in Geology
laboratory*



GEOLOGY AND GEOGRAPHY

PROFESSORS RICHARD H. MAHARD, CHARLES E. GRAHAM

ASSISTANT PROFESSORS KENNARD B. BORK, MICHAEL M. KATZMAN

CHAIRMAN (1967-70), MR. GRAHAM

THE GEOLOGY AND GEOGRAPHY CURRICULUM is designed to provide courses for the student interested in becoming acquainted with the earth as a planet, the earth's oceans and atmosphere, and the solid earth. These subjects are covered in Earth Science I (Physical Geology) and Earth Science II (Physical Geography). Either one of these courses may be used to fulfill one of the three basic science requirements.

The curriculum also provides training for the teacher in a first or second teaching field. Additionally, students planning for professional training in urban planning, geography, or geology will find the curriculum sufficiently well-rounded to be acceptable to graduate schools of the leading universities. Each student's sequence is carefully arranged in consultation with his adviser.

Major in Earth Science

A STUDENT MAY MAJOR IN EARTH SCIENCE, combining courses in Geology and Geography with other science offerings, and work towards a Bachelor of Arts degree. In addition to the introductory offerings, he would take 12 additional hours in Geology as well as Geography 225 and 226. Additional courses in Geography and in the other sciences would be expected, depending upon the interests and goals of the student.

Major in Geology

A STUDENT MAJORING IN GEOLOGY will normally be working toward a Bachelor of Science degree in anticipation of going on for graduate work in Geology. He will take eight courses in Geology in addition to Geology 400 and Geography 225 and 226. A minimum of 30 semester-hours is expected in Mathematics, Chemistry, Physics, Biology, and Engineering Graphics.

GEOLOGY 111—EARTH SCIENCE (I). (PHYSICAL GEOLOGY) 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 fall semester.)
Staff. 4

GEOLOGY 112—EARTH SCIENCE (II). (PHYSICAL GEOGRAPHY) 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.
Staff. 4

GEOLOGY 113—HISTORICAL GEOLOGY. A study of the geologic history of North America as synthesized from sequences of rock strata and from fossils. Emphasis is placed on the methods of interpreting the environment of deposition and the ecology of past life. Prerequisite: 111 (or 112 with consent).
Mr. Bork. 4

GEOLOGY 211—MINERALOGY. Basic crystallography and crystal chemistry. Variations in physical properties of hand specimens are studied in laboratory; polarizing microscope is used for optical studies, and x-ray powder techniques for elementary structural analysis and identification. Prerequisite: 111 or 112.
Mr. Katzman. 4

GEOLOGY 212—PETROLOGY. Physico-chemical basis of petrogenesis; hand specimen and microscopic identification and interpretation; igneous classification and simple binary and ternary systems; sedimentary rock classification and diagenesis; metamorphic rocks and processes. Prerequisite: 211.
Mr. Katzman. 4

GEOLOGY 213—PALEONTOLOGY. An introduction to microfossil and megafossil invertebrates relating their morphology to modern biological classification. Includes investigation on the paleoecology of the organisms. Prerequisite: 113.
Mr. Bork. 4

GEOLOGY 214—SEDIMENTATION AND STRATIGRAPHY. Study of the processes of sedimentation, the environments of deposition. Study of the principles of stratigraphy and correlation of the sedimentary sequences in North America. Prerequisite: 113.
Mr. Bork. 4

GEOLOGY 311—STRUCTURAL GEOLOGY. Study of movements of solid rock and molten rock and their effect upon crustal features of the earth. Prerequisites: Geology 111 or 112, and Geography 226.
Mr. Graham. 4

GEOLOGY 312—ADVANCED PHYSICAL GEOLOGY AND GEOMORPHOLOGY. Intensive study of dynamic earth processes, both constructional and destructional, which determine nature of earth's crustal features both large and small; topographic and geological map interpretation; field work. Prerequisite: 311.
Staff. 4

GEOLOGY 320—GEOLOGICAL INVESTIGATION IN THE FIELD. Study of geologic field methods, maps, and aerial photos as well as pre-trip preparation for the spring vacation field trip constitute a 3-hour course. Preparation and participation in the field trip constitute a 2-hour course. A student who has had Geology 111 may apply for permission to participate in the field trip for one semester-hour of credit.
Staff. 1-3

GEOLOGY 361-362—DIRECTED STUDIES. Individual reading and laboratory work in a student's field of interest within Geology. Work in Petroleum Geology is included. 3

GEOLOGY 400—FIELD COURSE. 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. 6

GEOLOGY 451-452—SENIOR RESEARCH.
Staff. 4

GEOLOGY 461-462 — INDIVIDUAL WORK FOR HONORS. 4

TEACHING OF SCIENCE (See **EDUCATION 311.**)

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).
(Same as Geology 111.) Staff. 4

significance in the affairs of South America.
Mr. Mahard. 3

GEOGRAPHY 112—EARTH SCIENCE (II).
(Same as Geology 112.) Staff. 4

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

GEOGRAPHY 225—GEOGRAPHY OF THE EASTERN UNITED STATES. Geomorphic provinces, their rocks, and terrain development. Emphasis on historical geography and continuing influence of environment upon the nation's development. (Fall semester.)
Mr. Mahard. 4

GEOGRAPHY 241—GEOGRAPHY OF ASIA. Asia is broadly studied to relate the environmental situation to the rapidly changing contemporary scene.
Mr. Mahard. 3

GEOGRAPHY 226—GEOGRAPHY OF THE WESTERN UNITED STATES. 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.)
Mr. Mahard. 4

GEOGRAPHY 261—WORLD POLITICAL GEOGRAPHY. A study of natural environment and earth-man relationships as they bear on the current world political situation.
Mr. Mahard. 3

GEOGRAPHY 230—GEOGRAPHY OF SOUTH AMERICA. Environmental factors and their

GEOGRAPHY 361-362—DIRECTED STUDIES. Readings in Geography selected to enhance student's geographic comprehension.
Mr. Mahard. 3

HISTORY

PROFESSORS MORTON B. STRATTON, WYNDHAM M. SOUTHGATE, G. WALLACE CHESSMAN, WILLIAM PRESTON, NORMAN H. POLLOCK, DAVID S. WATSON, JOHN K. HUCKABY

ASSOCIATE PROFESSORS ALFRED W. LEVER, CLARKE L. WILHELM (on leave second semester, 1969-70)

ASSISTANT PROFESSORS HOWARD R. HOLTER, WILLIAM C. DENNIS, ROBERT B. TOPLIN, MICHAEL D. GORDON

CHAIRMAN (1968-71), MR. STRATTON

Major in History

A STUDENT MAJORING IN HISTORY usually takes from 30 to 40 hours of course work in the department. (GE 20 does not count as hours in History.) The major must demonstrate a measure of competence in the following areas: American, Ancient and Medieval, European from the Renaissance to 1815, European from 1815 to the present, and Non-Western. This may be done in one or more of the following ways: by Advanced Placement or superior high school training, by Proficiency examination, or by taking one or more courses in an area.

In May of the junior year a major will take a written and oral examination on two significant problems of historical interpretation, drawing his material from any source at his command. The questions will be so framed as to involve both History and Historiography. The grade on this examination will be recorded for the purpose of qualifying for Honors.

Each major must prepare in consultation with his adviser a carefully constructed senior year program. Provision shall be made for writing a major research paper. Whether the senior program should involve specialization in a single field of History or a more general approach will depend on the needs of each student.

A working knowledge of a foreign language is normally expected of all majors; those planning on graduate school should start a second language if possible. (Graduate schools usually require a reading knowledge of French and German or one of these plus another language such as Spanish or Russian, depending on the research needs of the candidate.)

Introductory Courses

HISTORY 201—THE INDIVIDUAL AND THE SOCIAL ORDER. A study of the Graeco-Christian tradition in the West from ancient times to the emergence of the nation-state in the early modern period.

Mr. Chessman, Mr. Southgate. 4

HISTORY 205—EARLY MODERN EUROPE. A survey of the major developments in European intellectual, social, economic, and

political History from the Renaissance to the end of the Napoleonic period.

Mr. Gordon. 4

HISTORY 211—MODERN EUROPE. An examination of European society from the French Revolution to the present in the light of the forces which mold its attitudes and institutions. (Offered each semester.)

Messrs. Holter, Huckaby, Lever, Watson. 4

HISTORY 221—AMERICAN CIVILIZATION. A survey of the History of America from 1776 to the present. Political, diplomatic, social, economic, and intellectual themes and topics will be included.

Messrs. Chessman, Dennis, Preston,
Toplin, Wilhelm. 4

HISTORY 241—WESTERN MAN AND THE NON-EUROPEAN WORLD, 1500 TO PRESENT. Using a topical-regional approach within broad chronological periods, this course will examine the impact of Western European institutions, movements, and culture on Eurasia, Latin America, Africa, and Asia with emphasis on the modern period. (Should be taken in freshman or sophomore year if possible.)

Messrs. Holter, Pollock, Stratton, Toplin. 4

American History

HISTORY 301—THE COLONIAL PERIOD OF AMERICAN HISTORY. A study of the economic, social, and political aspects of American History during the 17th and 18th centuries.

Mr. Dennis. 3

HISTORY 303—THE AMERICAN FRONTIER. The frontier in American economic, political, and cultural development.

Mr. Wilhelm. 3

HISTORY 305—RECENT AMERICAN HISTORY. The political, economic, social, and constitutional history of the era of "normalcy," the Crash and the Great Depression, the New Deal, World War II, and the post-war problems of peace and reconstruction.

Mr. Chessman, Mr. Preston. 3

HISTORY 307—AMERICAN DIPLOMATIC HISTORY. 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.

Mr. Wilhelm. 4

HISTORY 309—AMERICAN ECONOMIC HISTORY. 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.

Mr. Preston. 3

HISTORY 311—AMERICAN INTELLECTUAL HISTORY. A study of selected problems in American intellectual development. Prerequisite: 221-222 or consent of instructor.

Mr. Chessman. 3

HISTORY 313—AMERICAN SOCIAL HISTORY TO 1860. A study of selected topics in American social history down to 1860. Such topics might include educational, religious, and economic institutions, as well as the development of social classes.

3

HISTORY 314—AMERICAN SOCIAL HISTORY SINCE 1860. A survey of development of American social history since the Civil War, emphasizing urban and industrial growth and its effects upon social classes, institutions, and cultural life.

Mr. Chessman. 3

HISTORY 315—A HISTORY OF BLACKS IN AMERICA. A study of the experience of Blacks in America with emphasis on the African heritage, slavery, Civil War and Reconstruction, the policies of discrimination, the shift to urban life, the rise of the ghetto, and the age of protest and change.

Messrs. Chessman, Preston, Toplin. 3

Ancient and Medieval History

HISTORY 321—THE HISTORY OF GREECE. Offered in 1970-71. Same as Classics 204. 4

HISTORY 323—THE HISTORY OF ROME. Offered in 1969-70. Same as Classics 323. 4

HISTORY 333-334—THE MIDDLE AGES. A seminar in the development of European

ideas and institutions from the High Middle Ages to the Renaissance. Prerequisite: GE 20.

Mr. Southgate. 3

HISTORY 335—ENGLAND IN THE MIDDLE AGES. English constitutional and social history from the Norman Conquest to 1485. Prerequisite: GE 20.

Mr. Southgate. 3



Dr. Stratton lecturing

Modern European History

HISTORY 337—THE RENAISSANCE. An examination of the Renaissance with particular attention given to Italian and Northern humanism and to political and economic developments. Some primary sources will be used.

Mr. Gordon. 3

HISTORY 338—EUROPE IN THE 16th CENTURY. An examination of 16th-century Europe with particular attention given to the Reformation and Counter-Reformation and to political and economic developments. Some primary sources will be used.

Mr. Gordon. 3

HISTORY 339—HISTORY OF SPAIN. A survey of the political, social, economic, and intellectual History of Spain from Ferdinand and Isabella to the present. Special attention will be paid to such topics as Spanish hegemony in the 16th and 17th Centuries, the Enlightenment in Spain, and the Civil War of 1936-39.

Mr. Gordon. 3

HISTORY 342—ENGLAND UNDER THE TUDORS AND STUARTS. A study of English social and cultural history and of the development of the English constitution against the background of the political history of the 16th and 17th Centuries. Prerequisite: GE 20.

Mr. Southgate. 3

HISTORY 343—MODERN BRITAIN. A political, social, and cultural history of Great Britain from 1715 to the present. Prerequisite: GE 20.

Mr. Watson. 3

HISTORY 345—AGE OF ABSOLUTISM. A study of the social, economic, and political

development of Western Continental Europe in the 17th and 18th Centuries, with particular reference to France. Prerequisite: GE 20.

Mr. Huckaby. 3

HISTORY 346—HISTORY OF FRANCE, 1789 TO PRESENT. A study of the major social, economic, and political developments in France since 1789. Prerequisite: GE 20.

Mr. Huckaby. 3

HISTORY 347—HISTORY OF RUSSIA. Development of the Russian people and state from their earliest origins to 1917; political, economic, and social relations; and foreign policy.

Mr. Holter. 4

HISTORY 348—HISTORY OF THE USSR. Political, economic, social, and diplomatic evolution of Soviet Russia and the Republics of the USSR from about 1917 to the present.

Mr. Holter. 4

HISTORY 349—MODERN GERMANY. A study of the political, economic, and social history of Germany from 1789 to the present.

Mr. Lever. 3

HISTORY 351—DIPLOMATIC HISTORY OF EUROPE IN THE 19th and 20th CENTURIES. A study of European international relations since the Napoleonic period, with emphasis on 1870 to the present.

Mr. Lever. 3

HISTORY 353—EUROPE IN THE 20th CENTURY. An analysis of the political, economic, and diplomatic problems of the 20th Century, using Europe as the point of focus but considering other areas where critical developments influenced the course of world events. The history of each European nation is studied in detail in order to reveal its unique characteristics as well as the extent to which it was involved in problems of European-wide or world-wide dimensions.

Mr. Pollock. 4

HISTORY 355—INTELLECTUAL HISTORY OF MODERN EUROPE (17th and 18th CENTURIES). The main currents of Western European thought examined as responses to scientific, economic, social, and political developments in eras of profound change.

Mr. Huckaby. 3

HISTORY 356—INTELLECTUAL HISTORY OF MODERN EUROPE (19th and 20th CENTURIES).

Mr. Watson. 3

African and Asian History

HISTORY 371—CHINA. 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.

Mr. Stratton. 4

HISTORY 373—JAPAN AND SOUTHEAST ASIA. A survey of the History of these areas, with emphasis on the period since the mid-19th Century.

4

HISTORY 381—AFRICA FROM EARLIEST TIMES TO THE 20th CENTURY. This course

refutes the long-held belief that Africa had no History until the period of European colonization. The various connections of Africa with the rest of the world are studied against the background of indigenous developments.

Mr. Pollock. 4

HISTORY 383—CONTEMPORARY AFRICA. A study of Africa south of the Sahara from the end of World War I to the present, through a comparative analysis of economic, social, political, and similar problems as they relate to the various nations and regions.

Mr. Pollock. 3

Latin American History

HISTORY 391—INTRODUCTION TO LATIN AMERICA. A survey of the colonial period and an introduction to the problems of Mexico, Central America, and the Caribbean in the 19th and 20th Centuries.

Mr. Toplin. 3

HISTORY 392—SOUTH AMERICA. A survey of South America in the 19th and 20th Centuries and a study of the problems of economic and social change.

Mr. Toplin. 3

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HISTORY 360—STUDIES IN HISTORY. Intensive study by the class of selected periods or topics in History. May be taken more than once for credit. Prerequisite: Consent of instructor.

Staff. 3

HISTORY 361-362—DIRECTED STUDY.

Staff. 3

HISTORY 431-432—SEMINARS. 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:

Staff. 3

- a. Early American History Mr. Dennis.
- 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. Renaissance and Reformation Mr. Gordon

- g. Tudor England Mr. Southgate
- h. Modern England Mr. Watson
- i. Far Eastern History Mr. Stratton
- j. Africa: South of the Sahara Desert Mr. Pollock
- k. Latin America Mr. Toplin
- l. The Enlightenment in Europe Mr. Huckaby
- m. Modern European Intellectual History Mr. Watson
- n. European Diplomatic History Mr. Lever
- o. The Old Regime in France Mr. Huckaby
- p. Russian History Mr. Holter

HISTORY 451-452—SENIOR RESEARCH. Research in selected topics of History. Staff. 4

HISTORY 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

TEACHING OF SOCIAL STUDIES (See EDUCATION 320.)



Dr. Roberts checking student research

MATHEMATICS

PROFESSORS (MISS) MARION WETZEL, ANDREW STERRETT, ARNOLD GRUDIN,
ROBERT A. ROBERTS

ASSOCIATE PROFESSOR W. NEIL PRENTICE

ASSISTANT PROFESSORS (MRS.) WANDA MOURANT, DONALD R. BELDIN, D. DONALD
BONAR, ZAVEN A. KARIAN (on leave all year)

CHAIRMAN (1969-72) MR. ROBERTS

SENIOR FELLOWS ANDREW H. FRENCH, MARY KOWASKI, CAROL VOEGELE

JUNIOR FELLOWS SUSAN BARANOVIC, JAMES F. BASKIN, GAIL BOZIG, JAMES F.
GAERTNER, THOMAS H. MACLEAY, DAVID B. POWELL, JULIE ROEVER

Major in Mathematics

MINIMUM REQUIREMENTS for a major in Mathematics for a B.A. degree are four semester courses at the 300 level or above. Minimum requirements for a major in Mathematics for a B.S. degree are eight semester courses at the 300 level or above.

A student desiring recommendations for graduate study in mathematics should take a B.S. major. A reading knowledge of at least one foreign language—French, German, or Russian—is also recommended.

Combined Major in Mathematics and Economics

A STUDENT INTERESTED in quantitative aspects of Economics who wishes to work for advanced degrees in Business or Economics with a strong Mathematics background may elect this combined major. Requirements are Mathematics 251, 307, 308, and 351, and Economics 200, 301, 302, 450a, 450c, and two additional Economics courses at the 300 level.

Courses of Study

A student who plans to teach in secondary schools is advised to include 307, 321, 365, and 375 in his program.

Mathematics 101, 102, and 107 are designed for the students majoring in the Behavioral, Management, or Social Sciences. *These courses do not count toward a major in Mathematics.*

MATHEMATICS 101—INTRODUCTORY CALCULUS. (Not offered in 1969-70.) Staff. 4

MATHEMATICS 102—PROBABILITY MODELS. Applications of probability models and elementary statistics appropriate for students of the life and social sciences. Staff. 4

MATHEMATICS 107—SOCIAL STATISTICS. (Not offered in 1969-70.) Staff. 3

MATHEMATICS 121—ELEMENTARY ANALYSIS. Differential and integral calculus of elementary functions of one variable. Prerequisite: Three years of high school Mathematics or consent. Staff. 4

MATHEMATICS 122—ANALYSIS. Infinite series, partial differentiation, multiple integration. Prerequisite: 121 or one year of calculus in secondary school or one semester of calculus in secondary school and consent. Staff. 4

MATHEMATICS 211-212—FRESHMAN HONORS IN ANALYSIS. This course is the equivalent of Mathematics 121, 122, 221, and 222 with considerable emphasis on individual study. Enrollment is by invitation only. (Not offered in 1968-69.) Staff. 4

MATHEMATICS 221—ANALYSIS. Linear algebra and applications to calculus. Prerequisite: 122. Staff. 4

MATHEMATICS 222—ANALYSIS. A rigorous review of calculus. Staff. 4

MATHEMATICS 251—COMPUTER PROGRAMMING AND NUMERICAL METHODS. Introduction to computer programming and numerical methods such as evaluating functions, finding roots of equations, and solving sets of simultaneous equations. Prerequisite: 101 or 121. Staff. 4

Dr. Sterrett and statistics class



MATHEMATICS 307-308—PROBABILITY AND MATHEMATICAL STATISTICS. Probability models, generating functions, limit theorems, stochastic processes, estimation of parameters, tests of hypotheses, regression. Prerequisite: 212 or 222. Staff. 4

MATHEMATICS 313—SOPHOMORE HONORS SECTION IN THE CALCULUS. Includes such topics as linear algebra, partial differentiation, multiple integrals, infinite series, and an introduction to differential equations. Prerequisite: 212. Staff. 4

MATHEMATICS 321—ADVANCED ANALYSIS. Limits, infinite series, and integration. Prerequisite: 222 or 212. Staff. 4

MATHEMATICS 322—ADVANCED ANALYSIS. Vector calculus and differential geometry. Prerequisite: 222 or 212. Staff. 4

MATHEMATICS 351-352—DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS. Linear differential equations, existence theorems and numerical integration techniques, error analysis, and numerical analysis. Prerequisite: 222 or 212 for 351; 351 and 251 for 352. Staff. 4

MATHEMATICS 361-362—DIRECTED STUDY. Staff. 3

MATHEMATICS 365-366—ABSTRACT ALGEBRA. Introduction to concepts of Algebra: Elementary number theory, group theory, ring theory, vector spaces, linear transfor-

mations, matrices, determinants, fields. Prerequisite: Consent of instructor. Staff. 4

MATHEMATICS 375—MODERN GEOMETRY. An introduction to modern geometrics. Prerequisite: 222. (Offered in 1968-69 and in alternate years.) Staff. 3

MATHEMATICS 421-422—THEORY OF FUNCTIONS. Introduction to complex analysis in the first semester. Topics such as analytic functions, integrals, series, and conformal mapping will be discussed. The second semester will include an introduction to real analysis and an analytic approach to such topics as measure theory, integration, Hilbert and Banach spaces. Prerequisite: 322 or consent of instructor. Staff. 4

MATHEMATICS 451-452—SENIOR RESEARCH. Staff. 4

MATHEMATICS 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

MATHEMATICS 471-472—TOPOLOGY. Introduction to the theory of topological spaces. Topics such as separation, metrizability, connectedness, compactness, and homotopy groups will be discussed. The second semester will be a continuation of the first with a topological approach to such topics as approximation, integration, Hilbert and Banach spaces. Prerequisite: 322 or consent of instructor. Staff. 4

TEACHING OF MATHEMATICS (See EDUCATION 335.)

Dr. Steele conducts conversation in Spanish



MODERN LANGUAGES

PROFESSORS WALTER T. SECOR, MILTON D. EMONT, CHARLES W. STEELE, FRED L. PESTON

ASSOCIATE PROFESSORS STANLEY JONAITIS, ARNOLD JOSEPH (on leave 1969-70)

ASSISTANT PROFESSORS JOSÉ R. ARMAS, (MRS.) ILSE WINTER (on leave 1969-70), VITALY WOWK, JOHN D. KESSLER, (MRS.) VIRGINIA NETT PETER, JAMES F. HAMILTON

INSTRUCTORS FRANKLIN PROANO, (MRS.) LUCETTA FOGEL, (MRS.) MARIA CRISTINA GARCIA, (MRS.) MARIETTA EMONT (part-time), (MRS.) KAY BORK (part-time), (MRS.) PAMELA KIESEL (part-time), (MRS.) AIDA TOPLIN (part-time)

VISITING LECTURER (MRS.) FELICITAS GOODMAN (part-time)

GLCA TEACHING ASSOCIATE (MRS.) LUCIE THESZ

CHAIRMAN (1967-70), MR. STEELE

SENIOR FELLOWS NANCY BUFORD, KAREN COZART, KIM GUTHAUS, ELIZABETH LINDSLEY, PATRICIA RICHARDSON (*French*); POLLY ADAMS, PATRICIA AVERY, MEREDITH MARION (*Spanish*)

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 a greater appreciation of the literature, art, science, and other 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. Drill in the laboratory is required of all students in language courses.

A student wishing to spend a summer, a semester, 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.*

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 basic requirement in *Language* by continuing the language begun in secondary school should also begin his course work in the freshman year. (For details concerning the alternatives for fulfilling the *Language* requirement, see PLAN OF STUDY.) The basic requirement in *Literature* (3 hours) may be fulfilled by successfully completing a literature course in the foreign language at the 300 level, or in English at the 200 level.

Major in French, German, Russian, or Spanish

REQUIREMENTS FOR A MAJOR in French, German, Russian, or Spanish include a minimum of 24 semester-hours above the 211-212 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 40 semester-hours (not counting 201-202). A student is permitted to receive credit toward graduation for no more than 40 semester hours in his major language (not counting 201-202). The maximum credit hours permitted to be earned within the department, including 201-202 and other languages, may not exceed 60 credit hours.

Courses in ITALIAN and in PORTUGUESE may be offered upon demand of 10 or more students.

FRENCH

MR. SECOR, MR. EMONT, MR. F. L. PRESTON, MR. JONAITIS, MR. JOSEPH, MRS. FOGEL, MR. HAMILTON, MRS. THESZ, MRS. EMONT (part-time), MRS. BORK (part-time)

A STUDENT MAJORING IN FRENCH must take the following courses above the 211-212 level: 311, 312, 415; a minimum of one seminar, 418; and three of the following: 317, 318, 319, 320, or 322. Recommended courses: 213, 313. Required related course: 201-202.

FRENCH 111-112—BEGINNING FRENCH. Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading. Work in the language laboratory is 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.
Staff. 4

FRENCH 201-202—AREA STUDY: FRANCE. The cultural background and significant contemporary political, sociological, and economic problems of France; its position in the affairs of the world today, and its relation to the United States. *Conducted in English.*
Mr. Secor. 3

FRENCH 211-212—INTERMEDIATE FRENCH. Review of sentence patterns, conversation, and reading of modern French prose. Work in the language laboratory is required. Prerequisite: 111-112 or two years of high school French.
Staff. 3

FRENCH 213—INTERMEDIATE CONVERSATION. Intensive practice in audio-lingual skills on the intermediate level. Language laboratory work required. This course does not count as a substitute for 212 to satisfy the basic language requirement. Offered both semesters. Prerequisite: 211 or the equivalent.
Staff. 3

Dr. F. L. Preston at controls in Language Laboratory



FRENCH 215—INTERMEDIATE FRENCH (Special). An intensive program in the basic language skills combined with a thorough review of French grammar on the intermediate level. Prerequisite: 3 years of high school French. Not open to students who have taken French 212 for credit. Staff. 4

FRENCH 311—INTRODUCTION TO FRENCH LITERATURE (Middle Ages Through the 17th Century). Introduction to major literary movements and figures with readings from representative authors. Conducted in French. Prerequisites: 212, 215, or four years of high school French. Staff. 4

FRENCH 312—INTRODUCTION TO FRENCH LITERATURE (18th Century to the Present). Introduction to major literary movements and figures with readings from representative authors. Conducted in French. Prerequisites: Same as for 311. Staff. 4

FRENCH 313—EXPLICATIONS DE TEXTES. Advanced oral training using "explication de textes" techniques, stressing text analysis and interpretation, vocabulary, and syntax. Prerequisites: 311 and 312. 3

FRENCH 317—17th CENTURY LITERATURE. 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. Conducted in French. Prerequisites: 311 and 312. Mr. Emont. 4

FRENCH 318—18th CENTURY LITERATURE. Voltaire, Rousseau, Montesquieu, Diderot, and the leading playwrights and novelists of the century. Conducted in French. Prerequisites: 311 and 312. Mr. Preston. 4

FRENCH 319—19th CENTURY PROSE AND POETRY. Novelists: Chateaubriand, Stendhal, Balzac, Flaubert, de Maupassant to contemporary authors. Critics: Sainte-Beuve, Taine, Renan. Poets: From the Romantics through the Symbolists. Conducted in French. Prerequisites: 311 and 312. Mr. Secor. 4

FRENCH 320—20th CENTURY THEATRE. A study of the development of the theatre of the 20th Century with emphasis upon Giraudoux, Cocteau, Montherlant, Anouilh, Claudel, Sartre, Camus and the Experimental Theatre of Ionesco and Beckett. Conducted in French. Prerequisites: 311 and 312. Mr. Secor. 4

FRENCH 322—20th CENTURY NOVEL. Gide, Proust, Mauriac, Malraux, Sartre, Camus, and others including the post-war experimenters of the New Novel. Conducted in French. Prerequisites: 311 and 312. Mr. Jonais. 4

FRENCH 361-362—DIRECTED STUDY. Staff. 3

FRENCH 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 trans-departmental sequence, Area Study: France. Mr. Secor. 3

FRENCH 415—ADVANCED FRENCH GRAMMAR AND WRITING. Intensive grammar review and composition on the advanced level. Offered both semesters. First semester limited to seniors; second semesters, juniors. Prerequisites: 311 and 312. Mr. Secor. 4

FRENCH 418—SEMINAR. Advanced study of special problems in language or literature. One seminar is usually offered each semester. Majors are required to take a minimum of one seminar, but may elect more. Prerequisites: 311, 312, and a semester of an advanced literature course. Staff. 2

FRENCH 451-452—SENIOR RESEARCH. Staff. 4

FRENCH 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

TEACHING OF MODERN LANGUAGES. (See EDUCATION 343)



Language tables provide social application of learning

GERMAN

MRS. WINTER, MR. KESSLER, MRS. PETER, MRS. EMONT (part-time), MRS. GOODMAN (part-time)

A STUDENT MAJORING IN GERMAN must take the following courses above the 211-212 level: 311 or 312, 313, 317, 318, and 321. Recommended courses: 213, 322, 415, and 416. Recommended related course: 201-202.

GERMAN 111-112—BEGINNING GERMAN.

Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading. Work is 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. Staff. 4

GERMAN 201-202—AREA STUDY: GERMANY. An introduction to the nature and problems of German civilization. A study of the land, the people, their culture, and its place in the contemporary world. Attendance at the third class-hour and special reports required of the student desiring three hours of credit. *Conducted in English.*

Staff. 2-3

GERMAN 211-212—INTERMEDIATE GERMAN. Review of sentence patterns, conver-

Courses of Study

sation, 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. **Staff. 3**

GERMAN 213—INTERMEDIATE CONVERSATION. 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. Prerequisite: 211 or consent. **Staff. 4**

GERMAN 215—INTERMEDIATE GERMAN (Special). An intensive program in the basic language skills combined with a thorough review of German grammar on the intermediate level. Prerequisite: 3 years of high school German. Not open to students who have taken German 212 for credit. **Staff. 4**

GERMAN 311-312—INTRODUCTION TO GERMAN LITERATURE. Readings from leading German literary figures of the 20th Century such as Kafka, Thomas Mann, Rilke, Hofmannsthal, Brecht. The drama (first semester); prose and poetry (second semester). Prerequisite: 212, 215, or four years of high school German. **Staff. 4**

GERMAN 313—ADVANCED CONVERSATION AND COMPOSITION. Intensive practice in audio-lingual skills on the advanced level. Composition is needed. At least two hours in the language laboratory are required each week. Conducted in German. Prerequisite: 213 or 211-212 or consent of instructor. **Mrs. Winter. 4**

GERMAN 317—GERMAN CLASSICS. Klopstock, Lessing, Schiller, Sturm and Drang. Prerequisites: 212, 213, or four years of high school German. **Mrs. Winter. 4**

GERMAN 318—GOETHE'S WORKS. Selections. Prerequisites: 212, 317, 321, or consent of instructor. **Mrs. Winter. 4**

GERMAN 321—ROMANTICISM AND DAS JUNGE DEUTSCHLAND. Early Romanticism through Heine, Schlegel, Tieck, Novalis,

Brentano, Eichendorff, Hoffman, and others. Prerequisites: Same as for 317. (Offered in 1969-70.) **Mr. Kessler. 4**

GERMAN 322—19th CENTURY PROSE AND DRAMA. Kleist, Buchner, Hebbel, Keller, Meyer, Storm, Fontane, Hauptmann, and others. Prerequisites: Same as for 318. (Offered in 1969-70.) **Mrs. Peter. 4**

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 trans-departmental sequence, AREA STUDY: GERMAN. **Staff. 3**

GERMAN 413—ADVANCED COMPOSITION AND GRAMMAR. Intensive grammar review and composition on the advanced level. Prerequisite: 312. **Mr. Kessler. 3**

GERMAN 414—THE GERMAN LYRIC. A representative sampling of early German poetry followed by more concentrated study of the lyrics of the 19th and 20th century poets including Rilke, Hofmannsthal, George, Krolow, Celan, Gottfried Benn, and others. Prerequisite: German 311 or 312. **Mr. Kessler. 4**

GERMAN 415—SURVEY OF GERMAN LITERATURE BEFORE 1700. Prerequisite: any 300 course or consent of instructor. **Mr. Kessler. 4**

GERMAN 416—SEMINAR. Prerequisite: same as 415. **Staff. 4**

GERMAN 451-452—SENIOR RESEARCH. **Staff. 4**

GERMAN 461-462—INDIVIDUAL WORK FOR HONORS. **Staff. 4**

TEACHING OF MODERN LANGUAGES. (See EDUCATION 343)

RUSSIAN

MR. WOWK, MRS. KIESEL (part-time)

Courses taught in Russian

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. 111 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. Review of structure, conversation, and reading of modern Russian prose. Outside readings with special provisions for those interested in scientific Russian literature. Drill

in the language laboratory is required. Prerequisite: 111-112 or two years of high school Russian. 3

RUSSIAN 305-306—ADVANCED RUSSIAN. An intensive program in the basic language skills (conversation, composition, reading, and comprehension) combined with a thorough review of Russian grammar. Prerequisite: 211-212 or equivalent. 4

RUSSIAN 315—READINGS IN RUSSIAN LITERATURE. Selections from 19th Century and Soviet Russian literature with emphasis on discussion and composition in the language. Prerequisite: 306 or equivalent. 4

Courses in English designed for the major (open to non-majors by consent)

RUSSIAN 316—19th CENTURY LITERATURE, PART I. Major literary movements and figures. Prerequisite: Consent. 4

RUSSIAN 361-362—DIRECTED STUDY. 3

RUSSIAN 317—19th CENTURY LITERATURE, PART II. Major literary movements and figures. Prerequisite: Consent. 4

RUSSIAN 451-452—SENIOR RESEARCH. 4

RUSSIAN 318—SOVIET LITERATURE. Major literary movements and figures. Prerequisite: Consent. 4

RUSSIAN 461-462—INDIVIDUAL WORK FOR HONORS. 4

TEACHING OF MODERN LANGUAGES. (See EDUCATION 343)

Course in English open to all students

RUSSIAN 290—RUSSIAN LITERATURE IN ENGLISH TRANSLATION. A course taught in English on one of the following topics.

- a. Gogol
- b. Dostoevsky
- c. Tolstoy
- d. Chekhov

SPANISH

MR. STEELE, MR. ARMAS, MR. PROANO, MRS. GARCIA, MRS. TOPLIN (part-time)

A STUDENT MAJORING IN SPANISH must take the following courses above the 211-212 level: 311-312, 315, 317, and two courses in the 415 sequence. Recommended courses: 313-314, 311-312 or 315-316. Recommended related course: 201-202.

SPANISH 111-112—BEGINNING SPANISH. 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. Staff. 4

SPANISH 201—AREA STUDY: LATIN AMERICA. An introduction to the nature and problems of Latin American Civilization. A study of the land, the people, their culture, and its place in the contemporary world. *Conducted in English.* Mr. Armas. 4

SPANISH 211-212—INTERMEDIATE SPANISH. Review in sentence patterns, conversation, and reading of modern Spanish prose. Drill in the language laboratory is required. Prerequisite: 111-112 or two years of high school Spanish. Staff. 3

SPANISH 215—INTERMEDIATE SPANISH (Special). An intensive program in the basic language skills combined with a thorough review of Spanish grammar on the intermediate level. Prerequisite: 3 years of high school Spanish. Not open to students who have taken Spanish 212 for credit. Staff. 4

SPANISH 311-312—INTRODUCTION TO SPANISH LITERATURE AND CIVILIZATION. An introductory survey of the literature and culture of Spain. Characteristics of modern Spain as seen through its history, geography, and art with primary attention to literary movements (the beginnings, Renaissance, Golden Age, Neo-Classicism, 19th and 20th Centuries.) A study of such representative authors and works as *El Cid*, Jorge Manrique, *Lazarillo de Tormes*, Cervantes, *La vida es sueño*, *Don Alvaro*, Pérez Galdós, Unamuno, Benavente, and Federico García Lorca. *Conducted in Spanish.* Prerequisite: 212, 215, or four years of high school Spanish. Mr. Proano. 4

SPANISH 313—ADVANCED CONVERSATION. Intensive practice in audio-lingual skills on the advanced level. Oral reports, class discussion, speeches. Prerequisite: 211-212 or consent of instructor. (Offered in 1968-69.) Mr. Armas, Mr. Proano. 4

SPANISH 315—MASTERPIECES OF SPANISH AMERICAN LITERATURE. A study of authors and works representative of the major literary movements of Spanish America. *Conducted in Spanish.* Prerequisites: 212, 215, or four years of high school Spanish. Mr. Steele. 4

SPANISH 317—SPANISH CIVILIZATION. An introduction to the culture of Spain; characteristics of modern Spain as seen through its history, geography, art, and social institutions. *Conducted in Spanish.* Prerequisites: 212, 215, or four years of high school Spanish. Mr. Armas, Mr. Steele. 4

SPANISH 361-362—DIRECTED STUDY. Staff. 3

SPANISH 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 trans-departmental sequence, AREA STUDY: LATIN AMERICA. 3

SPANISH 413—ADVANCED COMPOSITION AND SYNTAX. Intensive grammar review and composition on the advanced level. Prerequisite: 311-312, 315, 317. Mr. Proano. 4

SPANISH 415—PROBLEMS IN HISPANIC LITERATURE. A discussion course offered on one of the following topics according to student need and interest. *Conducted in Spanish.* Prerequisites: as indicated.

- a. Spanish Middle Ages (311)
- b. Spanish Golden Age Drama and Poetry (311-312)
- c. Spanish Renaissance (311)
- d. Cervantes (312)
- e. Picaresque Novel (311-312)
- f. Hispanic Romanticism (312, 315)
- g. Modernism and Post-Modernism (315)
- h. Contemporary Spanish American Novel (315)
- i. The Generation of '98 (312)
- j. Spanish 19th Century Novel (312)
- k. Contemporary Hispanic Drama and Poetry (312, 315)

Mr. Armas, Mr. Steele. 4

SPANISH 451-452—SENIOR RESEARCH. Staff. 4

SPANISH 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

TEACHING OF MODERN LANGUAGES. (See EDUCATION 343)



*From left: Mr. Neumann, Dr. Bostian, Mr. Bellino,
Mr. Fischer, Mr. Hunter, Mr. Larson*

MUSIC

PROFESSOR R. LEE BOSTIAN

ASSOCIATE PROFESSORS GEORGE R. HUNTER, FRANK J. BELLINO, EGBERT W. FISCHER, WILLIAM OSBORNE

ASSISTANT PROFESSORS HERMAN W. LARSON (on leave first semester, 1969-70), GABOR NEUMANN, (MISS) MARJORIE CHAN, ELLIOT BORISHANSKY

INSTRUCTORS (part-time), (MRS.) KAY HARDESTY, WILLIAM BAKER, ROBERT RAKER, (MRS.) ELIZABETH BORISHANSKY

CHAIRMAN (1968-71), MR. BOSTIAN

Major in Music

FOR INFORMATION concerning degree requirements, see PLAN OF STUDY.

MUSIC 101—FORMS OF MUSIC. A course designed to develop the listener's understanding of music in the concert repertoire (Baroque through the Contemporary Periods). The lectures will illustrate forms and general stylistic concepts of each period in relation to the social and historical background. Miss Chan, Mr. Hunter. 3

MUSIC 103b—BAND. Mr. Hunter. 1/2
103o—ORCHESTRA.

Mr. Bellino. 1/2
103c—CONCERT CHOIR.

Mr. Osborne. 1/2
Credit is granted for participation in any of these ensembles at the rate of one-half credit-hour for each of eight semesters.

The credit is not subject to the 17-hour limit. Six semesters of participation will constitute fulfillment of the recommended Fine Arts requirement. (*See Summary of Basic Requirements in COURSES OF STUDY.*)

MUSIC 105—OPERA WORKSHOP. A course which involves the preparation and performance of an opera or scenes from opera. Lectures will be given concerning the history of opera, and one opera will be studied in depth. Mr. Larson. 1-2

MUSIC 107 — CHAMBER MUSIC WORKSHOP. A course which involves actual performance in a chamber music ensemble. Emphasis will be placed on style, ensemble technique and musical details. Mr. Bellino, Miss Chan, Mr. Hunter. 1-2

MUSIC 109—CONTEMPORARY MUSIC. A survey of the music of today, including all major types from computer to jazz and designed specifically for the general student. Emphasis will be placed upon the maximum involvement of each student in several forms of contemporary music. (Offered second semester only). Mr. Bostian. 3

MUSIC 115-116—MUSIC THEORY I, II. A course in the harmonic structure of tonal Music plus aural and keyboard training. Mr. Borishansky. 4

MUSIC 201-202—HISTORY AND LITERATURE OF MUSIC I, II. An historical survey of the evolution of musical style in Western Europe from Classical Greece to the Classical Period. (Offered in 1970-71 and in alternate years). Mr. Osborne. 3

MUSIC 203-204—HISTORY AND LITERATURE OF MUSIC III, IV. An historical survey of the evolution of musical style in Western Europe from the Classical Period to the present. (Offered in 1969-70 and in alternate years). Mr. Fischer, Mr. Bostian. 3

MUSIC 215-216—MUSIC THEORY III, IV. A continuation of Music 116, including chromatic harmony and investigation into 20th Century harmony and style. Prerequisite: 115-116. Mr. Borishansky. 4

MUSIC 307-308—ORCHESTRATION AND CONDUCTING. Basic course in score-reading and conducting combined with a study of the Orchestra and Band and in arranging for these organizations. (Offered in 1969-70 and in alternate years.) Mr. Hunter. 2

MUSIC 311-312—STYLISTIC ANALYSIS. Analysis of rhythm, melody, harmony, form, and other stylistic features of representative works from the 18th through the 20th Centuries. (Offered in 1970-71 and in alternate years.) Mr. Fischer. 3

METHODS IN MUSIC EDUCATION (*See EDUCATION 315, 316.*)

MUSIC 341-342—COMPOSITION. Composition of vocal and instrumental works in strict and free styles. Prerequisites: 215-216 and some proficiency in keyboard performance. Mr. Borishansky. 3

MUSIC 401—SPECIALIZED COURSES. Offered in any semester when warranted by demand and when feasible within the individual instructor's schedule. Staff. 3

- a. The Viennese Classical Period Mr. Fischer.
- b. American Music Mr. Osborne.
- c. Historical Survey of Solo Voice Literature Mr. Larson.
- d. Historical Survey of Solo Piano Literature Mr. Neumann.
- e. Historical Survey of Chamber Music Literature Mr. Bellino.
- f. Choral Literature Mr. Osborne.
- g. The Organ—Its Design and Literature Mr. Osborne.
- h. Contrapuntal Styles Mr. Fischer.

MUSIC 441-442—COMPOSITION. Composition of a work of major proportions such as a sonata, quartet, symphony, or concerto. Prerequisite: 341-342. Mr. Borishansky. 3

MUSIC 451-452—SENIOR RESEARCH. Staff. 4

MUSIC 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4



Faculty Trio is composed of Mr. Bellino, Mr. Bostian, and Miss Chan

Applied Music

MUSIC 108—PRIVATE LESSONS IN PIANO, ORGAN, VOICE, STRINGED AND WIND INSTRUMENTS. Instruction is in private lessons and the need of the individual student at any level of instruction is met. 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, other than Music. One credit is given for one half-hour lesson per week and one hour of practice daily. (For costs, see Department of Music Fees under COLLEGE COSTS.)

MUSIC 141 — WOODWIND INSTRUMENTS CLASS. Class instruction for the students majoring in Music Education.

Mr. Hunter. 1

MUSIC 142—BRASS INSTRUMENTS CLASS. Class instruction for the students majoring in Music Education.

Mr. Hunter. 1

MUSIC 151-152 — STRING INSTRUMENTS CLASS. Class instruction for the students majoring in Music Education.

Mr. Bellino, Miss Chan. 1

MUSIC 161-162—VOICE CLASS. Recommended for beginners in voice and stressing fundamentals of voice production and basic techniques of singing.

Mr. Larson. 1

*Dr. Santoni's seminar discusses
Existentialism*



PHILOSOPHY

PROFESSORS MAYLON H. HEPP (on leave all year), RONALD E. SANTONI

ASSOCIATE PROFESSOR MORTON L. SCHAGRIN

ASSISTANT PROFESSORS DAVID A. GOLDBLATT, J. THEODORE KLEIN, ANTHONY J. LISSKA

CHAIRMAN (1967-70), MR. HEPP (on leave all year)

ACTING CHAIRMAN (1969-70), MR. SANTONI

COURSES IN THE DEPARTMENT are intended to help the student achieve for himself a reasoned perspective which brings the various fundamental interests and values of man into a balanced and integrated pattern of life. This aim is pursued through a study of philosophical heritage, through an analysis of the nature of knowledge and of valuation, and through examination of the areas of enduring human concern and their interrelations.

Major in Philosophy

A MAJOR IN PHILOSOPHY requires nine semester-courses to be selected by the student in consultation with his major adviser. Two semesters of the departmental seminar (431 or 432) must be included. Through a broad choice of elective courses outside the department, a student majoring in Philosophy should acquire a well-rounded acquaintance with the basic areas of human experience and investigation.

To avoid possible scheduling problems, a student considering a major in Philosophy should consult the department early in his college career.

A student preparing for graduate study in Philosophy should have a reading knowledge of French or German by the beginning of the senior year and at least an elementary knowledge of a second foreign language before graduation.

PHILOSOPHY 101 — BASIC ISSUES IN PHILOSOPHY. An understanding of the nature and function of Philosophy and of its relations to other fundamental human interests is sought through a consideration of representative philosophical problems as treated in selected writings of leading philosophers of the past and present. *This course satisfies the basic requirement in Philosophy or Religion. Offered both semesters. Open to freshmen only.*

Messrs. Goldblatt, Klein,
Liska, Santoni, Schagrin. 3

PHILOSOPHY 105—LOGIC. A study of the principles and problems involved in reasoning and in reaching conclusions. The course is divided into three parts: (1) the functions of language and the nature of meanings, (2) the structure of valid and invalid reasoning, and (3) an analysis of factual inquiry. *The course satisfies the basic recommendation in Logic or Mathematics.*

Mr. Schagrin. 3

PHILOSOPHY 112—CURRENT TOPICS IN PHILOSOPHY. An inquiry into philosophical issues and problems at the center of present attention. The topics examined vary from year to year in accordance with current interests and emphases. Open to freshmen and sophomores only. Prerequisite: 101.

Mr. Santoni. 3

PHILOSOPHY 221—ETHICS. Analysis of ethical language and the concepts *right*, *good*, and *ought*. Methods of justifying ethical decisions and types of ethical value systems. Emphasis on the practical applications of ethical theories in terms of personal and social morality.

Mr. Goldblatt. 3

PHILOSOPHY 226—SOCIAL PHILOSOPHY. A critical comparison of a personalistic social philosophy with communistic, socialistic, democratic, and individualistic social philosophies. Prerequisite: Sophomore standing or consent.

Mr. Goldblatt. 3

PHILOSOPHY 312—SYMBOLIC LOGIC. A study of the symbols used for analysis and deduction and the principles and methods basic to the construction of logistic systems. *This course satisfies the basic recommendation in Logic or Mathematics.* Prerequisite: Consent of instructor. (Not offered in 1969-70.)

3

PHILOSOPHY 327—PHILOSOPHY OF CIVILIZATION. A seminar dealing with the sources of Western civilization and recent philosophies of civilization as set forth by Spengler, Schweitzer, Toynbee, Whitehead, Northrop, and others. Prerequisites: Junior standing and consent of instructor. (Not offered in 1969-70.)

3

PHILOSOPHY 331—HISTORY OF PHILOSOPHY. 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. Prerequisite: Junior standing or consent. (Offered in 1969-70 and in alternate years.)

Mr. Liska. 3

PHILOSOPHY 332—HISTORY OF PHILOSOPHY. Modern philosophies which have shaped the contemporary mind. First-hand acquaintance with the philosophical classics from Descartes to Kant. Prerequisite: Junior standing or consent. (Offered in 1969-70 and in alternate years.)

Mr. Klein. 3



Dr. Schagrin with student between classes

PHILOSOPHY 333—19th CENTURY PHILOSOPHY. Work of such philosophers as Hegel, Schopenhauer, Comte, J. S. Mill, Engels, Nietzsche, and Kierkegaard. Prerequisite: Junior standing or consent. (Offered in 1970-71 and in alternate years.)

Mr. Hepp. 3

PHILOSOPHY 334—CONTEMPORARY THOUGHT. Present-day philosophical movements such as instrumentalism, process philosophy, logical positivism, linguistic analysis, and existentialism as set forth by men such as Russell, Dewey, Whitehead, Ayer, Ryle, Sartre, and Marcel. Prerequisite: Junior standing or consent. (Offered in 1970-71 and in alternate years.)

Mr. Hepp. 3

PHILOSOPHY 343—CHINESE PHILOSOPHY. Philosophies of China from ancient to modern times. Study of representative philosophical literature in translation and analysis of briefer selections in Chinese. *The course assumes no prior acquaintance with the Chinese Language.* Prerequisite: Junior standing or consent. (Offered in 1970-71.)

Mr. Hepp. 4

PHILOSOPHY 344—CLASSICAL CHINESE LANGUAGE AND THOUGHT. A philosophical and linguistic introduction to Chinese classical written language as a medium for the analysis of experience and for the expression of basic attitudes toward man, life, and nature. Readings in Chinese in the philosophical classics and poetry. *The course assumes no prior acquaintance with Chinese Language or Philosophy* and may be elected independently of 343. Prerequisite: Consent of instructor. (Offered in 1970-71.)

Mr. Hepp. 4

PHILOSOPHY 351—AMERICAN PHILOSOPHY. A study of the historical development of American Philosophy. Special attention will be given to those features of the philosophies of Peirce, James, Dewey, Mead, Whitehead, and Royce which are distinctively American. Prerequisite: Junior standing or consent. (Not offered in 1969-70.)

3

PHILOSOPHY 361-362—DIRECTED STUDY.
Staff. 3

PHILOSOPHY 401—PHILOSOPHY OF RELIGION. An examination of the basic tradi-

tional argumentation in respect to God's existence and an inquiry into the contemporary problems of religious knowledge and religious language. Prerequisite: 101 or consent.

Mr. Santoni. 4

PHILOSOPHY 403—PHILOSOPHY OF SCIENCE. An examination of the nature of man's scientific interest and of philosophical issues arising out of work in the sciences. Prerequisite: Consent of instructor.

Mr. Schagrin. 4

PHILOSOPHY 405—PHILOSOPHY OF THE ARTS. A seminar dealing with the nature of the various arts, of the creative process, and of aesthetic experience; the types of critical terminology; the nature and locus of aesthetic value; the ontology of art objects. Readings from representative aesthetic theorists in conjunction with examples from the various arts. Prerequisites: Junior standing and consent of instructor.

Mr. Goldblatt. 4

PHILOSOPHY 420—PHILOSOPHY OF EDUCATION. 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 experimentalism, realism, idealism, and existentialism are critically evaluated. Prerequisite: Junior standing. *Same as EDUCATION 420.*

Mr. Klein, Mr. Santoni. 4

PHILOSOPHY 431-432—SEMINAR IN PHILOSOPHY. Specialized study in some restricted field of philosophic thought is undertaken, the specific subject varying from semester to semester depending upon the needs of the students and the interests of the group. The course may be repeated with credit. Prerequisites: Second-semester junior standing and Philosophy major or consent. *Topic for first semester, 1969-70:* Philosophy of Language, Mr. Goldblatt and Mr. Klein; *second semester,* The Philosophy of Thomas Aquinas, Mr. Lisska.

4

PHILOSOPHY 451-452—SENIOR RESEARCH.
Staff. 4

PHILOSOPHY 461-462—INDIVIDUAL WORK FOR HONORS.
Staff. 4

PHYSICAL EDUCATION

MEN—PROFESSOR ROY SEILS

ASSISTANT PROFESSORS KEITH W. PIPER, ROBERT L. SHANNON, RICHARD S. SCOTT,
THEODORE H. BARCLAY, DALE S. GOOGINS, FERRIS THOMSEN, JR., MARIO
RUSSO, GEORGE A. BELU

CHAIRMAN (1967-70), MR. SEILS

WOMEN—PROFESSOR (MISS) NATALIE M. SHEPARD

ASSOCIATE PROFESSORS (MISS) MATTIE E. ROSS, (MISS) ELIZABETH C. VAN-
HORN

INSTRUCTOR (MISS) SUSAN SCHRAMM

CHAIRMAN (1968-71), MISS SHEPARD

Required Courses for Men

PHYSICAL EDUCATION 111-112 and 211-212 are required of all men during both semesters of the freshman and sophomore years. Each semester course earns one semester-hour of credit. Each student must also register for the Freshman Lecture course during the freshman year.

A student must show advanced standing in four out of five designated areas, or take a beginning course in student-selected activities in four of the five areas. These required areas include Aquatics, Gymnastics, Outdoor Education, Team Sports, and Individual and Dual Sports. Details of the activities, registration procedures, proficiency examinations, advanced standing, and departmental policies will be furnished each student at registration.

Any man who has had six months or more of military service prior to enrolling at Denison will be granted four semester-hours of credit to be recorded as Physical Education 111-112 and 211-212. If he attended college prior to his military service, he will be granted only enough additional credit in Physical Education to meet the graduation requirements of four semester-hours.

PHYSICAL EDUCATION 111-112 — ACTIVI-
TIES. Staff. 1

PHYSICAL EDUCATION 211-212 — ACTIVI-
TIES. Staff. 1



*Dr. Shepard directs
women's program*

Required Courses for Women

STUDENTS ARE REQUIRED to pursue courses in the department during their freshman and sophomore years until all standards are met. Following completion of the requirements, students may elect up to three additional credit-hours in Physical Education activity courses. The requirements are as follows:

1. Satisfactory evidence of meeting beginning level proficiency standards.*
2. Satisfactory completion of one credit-hour in an advanced level Physical Education activity of the student's choice, or the option of two one-half credit intermediate courses—Physical Education 120.**
3. Satisfactory completion of a two-hour credit course—Physical Education 151. The student may elect the option of taking 151 or of earning two more credit-hours in 120. This option may be elected *only* during the freshman and sophomore years.

The department does not give pass or fail or letter grades for its activity courses. The standards set for course achievement become the evaluative measure for the granting or withholding of credit.

PHYSICAL EDUCATION 120—ACTIVITY COURSES (Program Areas and Components).

Staff. 1-4

AREA I. AQUATICS

Basic skills, Intermediate and Advanced Skills, Senior Red Cross Life Saving, Diving, Scuba, Synchronized Skills and Water Ballet, Water Safety Instructors (Red Cross); Synchronized Swimming Club membership and Speed Club membership.

AREA II. DANCE AND GYMNASTICS

Dance—Ballet, Folk Dance, Modern Dance, Square Dance; Modern Dance Club membership. Gymnastics—Apparatus, Free Exercise, Trampoline, Tumbling.

AREA III. TEAM SPORTS

Basketball, Hockey, Lacrosse, Soccer-Speedball, Volleyball; Interscholastic Club team membership.

AREA IV. INDIVIDUAL AND DUAL SPORTS

Archery, Bowling, Fencing, Golf, Tennis, Personal Safety, Self-defense; Interscholastic Club team membership.

AREA V. OUTDOOR EDUCATION

Outing and Campcraft, Recreational Games Leadership Training, Riding. (Archery, Personal Safety, or Self-defense may count in Area IV or in Area V, but not in both.)

PHYSICAL EDUCATION 151—FOUNDATIONS OF PHYSICAL EDUCATION.

A selective survey of the foundation elements of Physical Education, Health Education, and Recreation; the interrelationships of these areas; the personal and social implications in the study of the arts of human movement.

Staff. 2

*The department recognizes the value of courses pursued in secondary school programs and the desirability of a variety of experiences in physical education activities. Therefore, a student must show at least beginning level proficiency in one activity in four of the five program areas. If her high school record shows deficiency in meeting these standards, she will select an activity in the area(s) needed and take beginning level instruction without grade or credit.

**The attainment of intermediate or advanced level skills is required for the granting of credit.

* * * * *

Major in Physical Education (Emphasis in Dance)

See DANCE

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 32 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.

Women students majoring or minoring in the department may earn further credits in activity courses by registering in the junior or senior years for Physical Education 311-312 with the consent of the departmental chairman. Such students also must participate in student teaching under staff supervision in a required Physical Education program.

The Physical Education Major is divided into four Blocks each of eight (8) semester hours credit. In addition to the 32-hour requirement, Biology 201 (4 semester hours) is a prerequisite for Block B. If the student wishes to meet State certification requirements for teaching, the following courses are required: Education 213 (3), 217 (3), 420 (3), and Student Teaching 415, 416 (6 semester hours).

Course Plan for Majors

PHYSICAL EDUCATION 329-330 (BLOCK A)
— METHODS, MATERIALS, AND TECHNIQUES OF PHYSICAL EDUCATION AND ATHLETICS. The primary objectives of this block of study are to present the three major bodies of knowledge which will provide the Physical Education major with an understanding of the progression through which a physical education for elementary and secondary school students should develop. Such activity will include (1) the techniques of performing skills for efficient and skillful movement, (2) the methods of teaching Physical Education for optimum participation and learning, and (3) the curriculum and materials of Physical Education based on needs and interests. Students may elect any or all of the following units within this block for credit:

UNIT A1—METHODS AND MATERIALS
(Weeks 1-3). 2

UNIT A2—LIFETIME SPORTS (Weeks 4-8). 3

UNIT A3—TEAM SPORTS (Weeks 9-14). 3
Staff. 8

PHYSICAL EDUCATION 339-340 (BLOCK B)
— THE STRUCTURAL AND FUNCTIONAL UNDERSTANDINGS OF HUMAN MOVEMENT. The primary objectives of this block of study are to present the four major bodies of knowledge which will provide the Physical Education major with an understanding of human movement. Such study will include (1) the science of Kinesiology and Anatomy centered in the structural and mechanical aspects of human movement, (2) the Physiology of exercise emphasizing the functional aspects of human movement, (3) aspects of individual and group health and fitness, and (4) the prevention and care of injuries.

UNIT B1—KINESIOLOGY AND PHYSIOLOGY (Weeks 1-7). 4

UNIT B2—METHODS AND MATERIALS FOR INDIVIDUAL AND GROUP HEALTH AND FITNESS (Weeks 8-10½). 2

UNIT B3—FIRST AID INSTRUCTORS' COURSE (Weeks 10½-14). 2
Staff. 8

PHYSICAL EDUCATION 429-430 (BLOCK C)
—THE HISTORY, PHILOSOPHY, ORGANIZATION, AND PRINCIPLES OF PHYSICAL EDUCATION AND ATHLETICS. The primary objectives of this block are (1) to present the foundations of Physical Education and Athletics through a study of the history of each, (2) to study the relationships and the cultural, educational, economic, and philosophical factors influencing the growth and development of Physical Education and Athletics, (3) to study the source and data of principles for Physical Education and Athletics, (4) to study the organization and administration of the school programs devised for each area, and (5) to consider future directions—probable, desirable, and achievable for each area.

UNIT C1—HISTORY, PRINCIPLES, AND PHILOSOPHY (Weeks 1-8). 5

UNIT C2—ORGANIZATION AND ADMINISTRATION (Weeks 9-14). 3
 Staff. 8

PHYSICAL EDUCATION 439-440 (BLOCK D)
— METHODS, MATERIALS, TECHNIQUES, AND PROGRAM FOR SCHOOL HEALTH AND RECREATION IN AMERICAN LIFE: SENIOR PROBLEMS AND THESIS. The primary objectives of this block are (1) to present the methods, materials, and program appropriate for School Health Education, (2) to present a study of the cultural, educational, economic, and philosophical factors influencing the growth and development of leisure and recreational pursuits in American life, (3) to present a Senior Seminar on contemporary issues and problems in Physical Education and Athletics, and (4) to provide guidance for the individual student in the preparation of a Senior Thesis.

UNIT D1—SCHOOL AND COMMUNITY HEALTH EDUCATION 3

UNIT D2—SCHOOL AND COMMUNITY RECREATION. 3

UNIT D3—PROBLEMS AND THESIS. 2
 Staff. 8

Electives for Majors

PHYSICAL EDUCATION 124—CAMPING AND OUTDOOR EDUCATION. The summer camp as an educational and recreational agency. Designed to prepare students for counselorship.
 Miss Ross. 2

PHYSICAL EDUCATION (Men) 235m-236m—SPORTS OFFICIATING. 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.
 Mr. Scott. 2

PHYSICAL EDUCATION 311-312—ACTIVITIES ENRICHMENT. Activity courses available only to junior or senior students majoring or minoring in the department. These activity enrichment courses are designed to aid the student in developing personal skills in program areas of deficiency or weakness.
 Staff. 1

PHYSICAL EDUCATION 319m — THEORY AND PRACTICE OF BASKETBALL COACH-

ING. Includes instruction and supervised practice in the fundamental and advanced skills, offensive and defensive tactics, conditioning activities, purchase and care of equipment, public relations, organization, pre-season and in-season planning and practice, scouting, ethics, and conduct. Prerequisite: Block A.
 Staff. 2

PHYSICAL EDUCATION 320m — THEORY AND PRACTICE OF FOOTBALL COACHING. Includes instruction and supervised practice in the fundamental and advanced skills, offensive and defensive tactics, conditioning activities, purchase and care of equipment, public relations, organization, pre-season and in-season planning and practice, scouting, ethics, and conduct. Prerequisite: Block B.

PHYSICAL EDUCATION 361-362—DIRECTED STUDY. Staff. 3

PHYSICAL EDUCATION 451-452 — SENIOR RESEARCH. Staff. 4

PHYSICAL EDUCATION 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

PHYSICS

PROFESSOR SAMUEL C. WHEELER

ASSOCIATE PROFESSOR F. TREVOR GAMBLE (on leave first semester, 1969-70)

ASSISTANT PROFESSORS RODERICK M. GRANT, LEE E. LARSON, RONALD R. WINTERS,
JEFFREY S. JALBERT, MICHAEL E. MICKELSON

CHAIRMAN (first semester, 1969-70), MR. WHEELER

CHAIRMAN (1970-72), MR. GAMBLE

SENIOR FELLOWS RICHARD A. SWENSON, ROBERT D. WILLIS

JUNIOR FELLOW GLENN S. MASLINE

Major in Physics

THE ENTERING STUDENT desiring to major in Physics or Astronomy or related fields should elect in his freshman year either Physics 121-122 or Physics 221-222 and Mathematics 121-122 or an appropriate Honors course. Students with modest preparation in these subjects normally register for Physics 121-122 and Mathematics 121-122, and those with strong preparation, particularly in Mathematics, should elect Physics 221-222 and the Mathematics course at the level consistent with the students' attainments. The student is encouraged to consult with a member of the department before registration.

Students preparing for graduate work in Physics should elect 301-302, 305, 306, 311-312, 405, 406, and one or more courses from 307, 308, 451-452, or 461-462 (Honors), and at least two additional years of Mathematics. A year or more of other science is desirable, as is a reading knowledge of at least one Modern Language (French, German, or Russian).

Students preparing for graduate work in Astronomy, Astrophysics, or Space Physics should elect Physics 301-302 and Astronomy 111 and 112 as sophomores, followed by Physics 305, 306, 405, 406, and one or more courses from Physics 307, 308, 311-312, Astronomy 451-452, or 461-462 (Honors), and at least two additional years of Mathematics, as well as the suggested related courses listed in the paragraph above. (Note: Graduate departments in these fields much prefer strong undergraduate preparation in Physics and Mathematics to weaker preparation in these fields occasioned by too many undergraduate level Astronomy courses.)

The minimum requirements for the major in Physics beyond the introductory courses are 301-302 followed by 305, 306, and at least eight additional semester-hours in Physics and one additional year of Mathematics. Physics majors normally become proficient in computer programming and data processing.

A major in Physics, in addition to preparing students for professional work in the field, has proven desirable for those pursuing careers in medicine, law, business, industrial management, or secondary school teaching. Sufficient flexibility exists in the major program to suit the needs and goals of the individual student.

PHYSICS 103—CURRENT TOPICS IN PHYSICS. Designed principally for students not contemplating a major in the sciences, but who nevertheless wish exposure to areas of current investigation in Physics. Topics will be chosen at the beginning of the semester for thorough investigation within the framework of contemporary Physics. The laboratory, an intimate part of this course, will be used to introduce the student to many discovery-experiments and to techniques of research. Open to seniors by consent only. Mathematical preparation is assumed to include high school algebra and geometry. (This satisfies one course of the science requirement.) **Staff. 4**

PHYSICS 106—LIGHT TOPICS. Designed for students who do not contemplate majoring in the sciences. The development of quantum physics in the 20th Century will be traced. The crucial experiments and theories will be investigated chronologically, and the historical and philosophical implications of the developments will be presented. The laboratory will be used to repeat many of the crucial experiments as they occurred and to develop competence in some areas of pre-20th Century Physics necessary for the complete understanding of the implications of quantum Physics. Open to seniors by consent only. Mathematical preparation is assumed to include high school algebra and geometry. (This satisfies one course of the science requirement.) **Staff. 4**

PHYSICS 121-122—GENERAL PHYSICS. This 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. The course includes a significant introduction to the Physics of the 20th Century. Five lectures and one two-hour laboratory each week. Mathematics 121-122 must be taken concurrently unless the chairman gives consent to enroll without it. **Staff. 4**

PHYSICS 221-222—MODERN ANALYTICAL PHYSICS. A course in General Physics with emphasis on an analytical formulation of the concepts and methods of Physics, and with applications drawn from the active fields of modern Physics. Five lectures and one two-hour laboratory each week. Open to freshmen with strong high school Mathematics. Prerequisite: Math 121-122 or 221-222 or concurrent registration. **Staff. 4**

PHYSICS 301-302—MODERN PHYSICS. An intensive quantitative survey of the active fields of present-day Physics. Three lectures each week. Prerequisite: 122 or 222.

Staff. 3

PHYSICS 305—CLASSICAL MECHANICS. A course in classical mathematical Physics designed to provide the student with a basic understanding of the methods and procedures of physical analysis. Prerequisite: 122 or 222.

Staff. 3

PHYSICS 306—ELECTRICITY AND MAGNETISM. A course in the theory of electromagnetic interactions, including the sources and descriptions of electric and magnetic fields, Maxwell's equations and electromagnetic radiation. Prerequisite: 122 or 222.

Staff. 3

PHYSICS 307—INTRODUCTORY QUANTUM MECHANICS. A first course including solutions of the Schrodinger Equation for some elementary systems, followed by an introduction to the more abstract methods of Quantum Mechanics. Prerequisites: 305/consent.

Staff. 3

PHYSICS 308—THERMODYNAMICS. Covers selected topics from thermodynamics, kinetic theory, and statistical methods. Prerequisite: 122-222.

Staff. 3

PHYSICS 311-312—EXPERIMENTAL PHYSICS. A course in the theory and practice of physical research with emphasis on the understanding and use of present-day research instrumentation. Prerequisite: 122 or 222.

Staff. 3

PHYSICS 340—ADVANCED LABORATORY. Selected experiments designed to supplement the work in advanced courses. One 3-hour laboratory each week for each semester-hour of credit. May be taken for a maximum of four semester-hours of credit. Prerequisite: Junior standing and consent of chairman.

Staff. 1-2

PHYSICS 361-362—DIRECTED STUDY.

Staff. 3

PHYSICS 401-402—SEMINAR. Required of Senior majors. Recommended without credit for all majors.

Staff. 1

PHYSICS 405—ELECTROMAGNETIC THEORY. A course extending the work of 306 to include more general boundary value problems, additional implications of Maxwell's equations, and the wave aspects of electromagnetic radiation, including topics in modern physical optics. Prerequisite: 306 or consent. **Staff. 3**

PHYSICS 406—ADVANCED DYNAMICS. A course extending the work of 303 to include the more general formulations of classical

dynamics and to relate these to modern theoretical Physics. Prerequisite: 305 or consent. **Staff. 3**

PHYSICS 451-452—SENIOR RESEARCH. **Staff. 4**

PHYSICS 461-462—INDIVIDUAL WORK FOR HONORS. **Staff. 4**

TEACHING OF SCIENCE (See EDUCATION 311.)

POLITICAL SCIENCE

PROFESSORS CEPHUS L. STEPHENS, LOUIS F. BRAKEMAN

ASSISTANT PROFESSORS ROY D. MOREY (on leave all year), WILLIAM J. BISHOP, EMMETT H. BUELL, RONALD H. CLARK, MARTIN P. KOCHMAN

CHAIRMAN (1968-71), MR. BRAKEMAN

SENIOR FELLOWS DAVID E. HASEL, SALLY LAMBERT, SARAH PERKINS, SUSAN POWER

JUNIOR FELLOW JON WILLIAMSON

Major in Political Science

EACH MAJOR must take Political Science 211, American National Government, and two courses from each of three sections entitled *American Government and Politics*, *Comparative and International Politics*, and *Normative and Empirical Theory*.

A major also is required to take Economics 200, Sociology 207 or 302, and any two courses in History, exclusive of GE 20.

A Political Science major expecting to enter the foreign service should have a reading knowledge of a modern foreign language by the beginning of the senior year. A major planning to do graduate study in Political Science is encouraged to take a course in Social Studies, and the course in computer programming.

Major in Political Science (International Relations Concentration)

See INTERNATIONAL STUDIES

American Government and Politics

POLITICAL SCIENCE 211—AMERICAN NATIONAL GOVERNMENT. Study of the development, structure, and operation of our national government. (Open to freshmen.) **Staff. 3**

POLITICAL SCIENCE 331—POLITICAL PARTIES AND POLITICS. Party history in terms

of economic and social movements. Analysis of party structure, including group composition, voting behavior, machinery, and finances. Interpretation of party operations in the electoral process and government functions. Structure and function viewed within empirical and value theory framework. **Mr. Buell. 3**

POLITICAL SCIENCE 347—THE POLITICS OF THE JUDICIAL PROCESS. The process of judicial decision-making in state and federal courts. Topics to be studied include judicial organization and staffing, the sources and instruments of judicial power, access to courts, legal reasoning, the decisional process, and the impact of judicial decisions.
Mr. Clark. 3

POLITICAL SCIENCE 351—AMERICAN CONSTITUTIONAL LAW, GENERAL POWERS. The role of the Supreme Court as interpreter

of the Constitution examined through case opinions. Topics to be covered include the function of judicial review, federalism, the separation of powers, taxation, and interstate commerce.
Mr. Clark. 4

POLITICAL SCIENCE 352—AMERICAN CONSTITUTIONAL LAW, CIVIL LIBERTIES. The Supreme Court's function as interpreter of constitutional rights, including freedom of expression and religion, procedural guarantees, and equal protection of the laws.
Mr. Clark. 4

Comparative and International Politics

POLITICAL SCIENCE 221—COMPARATIVE POLITICS. A comparative study of problems and concepts pertinent to 20th Century world politics. The focus of the course will be upon such concepts as legitimacy, political socialization, political integration, and totalitarianism. The concepts will be applied mainly to an analysis of the politics of the United Kingdom, France, Germany, and the U.S.S.R.
Mr. Bishop. 4

POLITICAL SCIENCE 308—THE POLITICS OF DEVELOPING NATIONS. An analysis of the politics of modernization and socio-economic development and change. The course will emphasize general problems and conditions of development. Attention will be directed to the regional, cultural, and temporal differences in the modernization syndrome.
Mr. Bishop. 4

POLITICAL SCIENCE 315—BRITISH POLITICS: A SURVEY OF BRITISH POLITICAL BEHAVIOR AND INSTITUTIONS. The British political system will be approached in terms of general questions concerning relations between political and social and economic institutions, the formation of political attitudes and "interests," and the representation of "interests" through political parties and pressure groups.
Mr. Kochman. 3

POLITICAL SCIENCE 316—PUBLIC POLICY IN THE UNITED STATES AND GREAT BRITAIN. A comparative examination of gov-

ernment involvement in a wide variety of socio-economic activities and how public policy is determined in the United States and Great Britain. The roles of the executive and legislature will be considered. Consideration will be given to various theories attempting to account for the actions of government—economic determinism, sociological determinism, popular demands, and decision-making models.
Mr. Kochman. 3

POLITICAL SCIENCE 322—THE POLITICS OF EASTERN EUROPE AND THE SOVIET UNION. A comparison of the politics of the nine countries of Eastern Europe with politics in the Soviet Union.
Mr. Bishop. 4

POLITICAL SCIENCE 341—INTERNATIONAL POLITICS. Analysis of the theoretical and practical problems of international politics in a nuclear age. Decision-making at the national level in U.S. and other current problems of U.S. foreign policy will be given particular attention.
Mr. Brakeman. 4

POLITICAL SCIENCE 342—INTERNATIONAL LAW AND ORGANIZATION. An examination of international law, a consideration of the theory and practice of political integration, and an analysis of the chief difficulties facing the United Nations.
Mr. Brakeman. 4



*Dr. Brakeman conducts
Washington field trip*

Normative and Empirical Theory

POLITICAL SCIENCE 300—THE SCOPE AND METHODS OF POLITICAL SCIENCE. An introduction to the major concepts, issues, and methods in the study of politics. Emphasis will be on some of the most current research and on the student's ability to select and design a research project.

Mr. Kochman. 4

POLITICAL SCIENCE 304—MODERN AND CONTEMPORARY POLITICAL THOUGHT. The chief theories of European and American governments from Machiavelli to the present.

Mr. Stephens. 3

POLITICAL SCIENCE 305—AMERICAN POLITICAL THOUGHT. A study of the issues in American political thought from the colonial period to the present. Attention will be given to both the intellectuals and practitioners in American politics. Selected Supreme Court opinions will be examined.

Mr. Stephens. 3

POLITICAL SCIENCE 354—INTRODUCTION TO THE LEGAL PROCESS: THE ROLE OF LEGAL INSTITUTIONS IN AMERICAN GOVERNMENT. Subjects discussed include com-

mon and statutory legal systems, the structures and procedures of courts, methods of case and statutory analysis, the adversary system, interplay between judicial and legislative branches, and judicial review of administrative interpretation. (Offered in alternate years.)

Mr. Clark. 4

POLITICAL SCIENCE 355—INTRODUCTIONS TO JURISPRUDENCE: AN INQUIRY INTO THE NATURE OF LAW AND JUSTICE. The evolution of legal philosophy from the ancients to the present, such topics as natural law, the pure theory of law, sociological jurisprudence, legal realism, and contemporary legal theories. (Offered in alternate years.)

Mr. Clark. 4

Other

POLITICAL SCIENCE 360—WASHINGTON FIELD TRIP. 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. (Offered on demand.)

Staff. 2

POLITICAL SCIENCE 361-362—DIRECTED STUDY. Directed studies are undertaken at the initiative of the student and may involve any topic acceptable to the student and an instructor.

Staff. 3

POLITICAL SCIENCE 401—SEMINAR. 3
a. Law Politics and the Federal Regulatory Commissions Mr. Stephens.
b. Political Elites in Eastern Europe Mr. Bishop.

POLITICAL SCIENCE 402—SEMINAR. 3
a. Marxist and Utopian Political Thought: Theory and Practice Mr. Kochman.
b. Judicial Political Thought Mr. Clark.
c. Negro Politics Mr. Buell.

POLITICAL SCIENCE 451-452—SENIOR RESEARCH.

Staff. 4

POLITICAL SCIENCE 461-462—INDIVIDUAL WORK FOR HONORS.

Staff. 4

PSYCHOLOGY

PROFESSOR IRVIN S. WOLF

ASSISTANT PROFESSORS TIMOTHY D. OTIS, GORDON M. KIMBRELL, ROY L. KRUEGER, CHARLES J. MORRIS, GEORGE S. GOLDSTEIN, and Others (part-time)

CHAIRMAN (1967-70), MR. WOLF



Dr. Wolf

Major in Psychology

A MAJOR IN PSYCHOLOGY requires a minimum of 30 semester-hours of credit in Psychology including 101, 313, 315a, 315b, 413, 414, and 441. In addition, one of the following units is required: 317a and 317b, 318a and 318b, 319a and 319b, or two of 317a, 318a, or 319a. The student then should select electives from regular offerings in Psychology. Ordinarily Directed Study, Minor Problems, or Honors courses will not be counted toward the minimum hours requirement.

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, Physics, Sociology, Philosophy, etc., as advised, to meet individual needs.

Some students will be interested in Personnel Administration to obtain an understanding of personnel policies and practices applicable in business and industry and in the field of education. For such a concentration, students will take the required courses listed above and will be advised regarding the appropriate electives in Psychology and courses in some of the following areas: Economics, Education, Political Science, Sociology, and Speech.

Psychology 101 is prerequisite to all other courses in this department.

PSYCHOLOGY 101—GENERAL PSYCHOLOGY. A survey of topics in Psychology, with emphasis on the scientific study of human and animal behavior. 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. (Offered each semester.)

Staff. 3

PSYCHOLOGY 217—CHILD AND ADOLESCENT DEVELOPMENT. Psychological development especially during the school years. (Same as EDUCATION 217.) (Offered each semester.)

Mr. Krueger, Mr. Morris. 3

PSYCHOLOGY 226—THEORIES OF PERSONALITY. Covers major theories of personality with intensive study of at least one theory.

In Mr. Smith's section, class meetings are concerned with a *social learning* approach to personality and behavior, with other theories and approaches being presented through outside reading. In Mr. Tritt's section, readings in the *phenomenological and existential* theories of personality and behavior are emphasized while class meetings are an opportunity for encounter group discussion.

Mr. M. W. Smith, Mr. Tritt. 3

PSYCHOLOGY 313—STATISTICS AND EXPERIMENTAL DESIGN. An introduction to techniques of measurement. Special emphasis is placed on probability and sampling theory, tests of significance, analysis of variance, and principles of statistical control in experimentation.

Mr. Krueger, Mr. Otis. 4

PSYCHOLOGY 314—PSYCHOLOGICAL TESTS AND MEASUREMENTS. Application of individual and group tests.

2

PSYCHOLOGY 315a—LEARNING AND MOTIVATION: LECTURE. Experimental approach to problems of human and animal learning and motivation. May be taken concurrently with 313 and 315b. Mr. Otis. 2

PSYCHOLOGY 315b—LEARNING AND MOTIVATION: LABORATORY. Offers the student actual research experience in a variety of experimental situations. May be taken concurrently with 315a, or by consent. Mr. Otis. 2

PSYCHOLOGY 317a—SENSATION AND PERCEPTION: LECTURE. Covers current theory and research in sensation and perception. Staff. 2

PSYCHOLOGY 317b—SENSATION AND PERCEPTION: LABORATORY. Application of research techniques to problems in sensation and perception. May be taken concurrently with 317a, or by consent. Staff. 2

PSYCHOLOGY 318a—COMPARATIVE PSYCHOLOGY. A survey and analysis of theory and research pertaining to species specific or characteristic forms of psychological function (behavior) stressing the comparative method of analysis. May be taken concurrently with 318b. Mr. Kimbrell. 2

PSYCHOLOGY 318b—COMPARATIVE PSYCHOLOGY: LABORATORY. Illustration of the comparative method through study of closely related species and application of modern experimental techniques in the analysis of species characteristic forms of behavior. May be taken concurrently with 318a. Mr. Kimbrell. 2

PSYCHOLOGY 319a—PHYSIOLOGICAL PSYCHOLOGY: LECTURE. Covers current theory and research in physiological psychology with special emphasis on the physiological bases of motivation, learning, and sensation. Mr. Kimbrell. 2

PSYCHOLOGY 319b—PHYSIOLOGICAL PSYCHOLOGY: LABORATORY. Covers research techniques in physiological psychology through practical application to experimental problems. May be taken concurrently with 319a, or by consent. Mr. Kimbrell. 2

PSYCHOLOGY 338—SOCIAL PSYCHOLOGY. Individual behavior as it is influenced by cultural forces. Mr. Goldstein. 3

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

PSYCHOLOGY 361-362—DIRECTED STUDY. Staff. 3

PSYCHOLOGY 401—SENIOR COLLOQUIUM. Current topics in Psychology. Recommended for senior majors. Staff. 2

PSYCHOLOGY 402—SEMINARS. Seminars in special areas within Psychology. Content will vary with staff and student interest. Designed for both majors and non-majors. Staff. 2

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

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

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

PSYCHOLOGY 417—INDUSTRIAL PSYCHOLOGY. Psychological principles and methods as they contribute to the solution of industrial problems. 3

PSYCHOLOGY 441—ADVANCED GENERAL PSYCHOLOGY. Designed to integrate the student's knowledge of Psychology. Mr. Wolf. 3

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

PSYCHOLOGY 451-452—SENIOR RESEARCH. Staff. 4

PSYCHOLOGY 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

RELIGION

PROFESSORS JAMES L. MARTIN, LEE O. SCOTT

ASSOCIATE PROFESSOR WALTER EISENBEIS

ASSISTANT PROFESSORS DAVID O. WOODYARD (part-time), DAVID A. GIBBONS (part-time)

CHAIRMAN (1967-70), MR. MARTIN

SENIOR FELLOW JILL PARKER

JUNIOR FELLOW DAVID A. MILLER

Major in Religion

AMONG THE 30 SEMESTER-HOURS of credit for a major in the Department of Religion 212, 213, 303, and 420 are required, and one course in Non-Christian Religions — 317 or 336.

Although many students have prepared for theological seminary or graduate study in Religion by taking a major in Religion, the department views Religion as an academic liberal arts field rather than as preparation for professional service. Students planning to attend seminary or graduate schools of Religion should consult with the department about entrance requirements.

RELIGION 101—BASIC CHRISTIAN BELIEFS. An analysis of selected Jewish and Christian beliefs in the light of present knowledge and intellectual movements. Crucial beliefs about God and creation, Christ and human nature, and the Kingdom of God and history will be examined; also the problem of personal identity, the nature of religious language, and the problem of religious knowledge. **Mr. Scott. 3**

RELIGION 102—RELEVANCE OF THE BIBLE FOR THE MODERN WORLD. A study of the contents, literature, background, and message of the Bible, both historically and in its relation to the problems of modern man. **Mr. Eisenbeis. 3**

RELIGION 103—WORLD RELIGIONS. A study of varying approaches to religion, as seen in existing religious systems. A survey of primitive religions, Western religions (Zoroastrianism, Judaism, Christianity, and Islam), and Eastern religions (Hinduism, Buddhism, Taoism, and Confucianism). **Mr. Eisenbeis, Mr. Martin. 3**

RELIGION 211—INTRODUCTION TO THE OLD TESTAMENT. Orientation to the study

of the Bible. An introduction to the history, literature, and religion of the Old Testament. **Mr. Eisenbeis. 4**

RELIGION 212—INTRODUCTION TO THE NEW TESTAMENT AND THE APOSTOLIC AGE. An introduction to the religion and literature of the New Testament: the rise of the Christian church, the Apostolic Age. **Mr. Eisenbeis. 4**

RELIGION 213—HISTORY OF CHRISTIAN THOUGHT. A survey of the development of Christian teachings from the early Middle Ages to the 19th Century. The origin and development of the principal doctrines of the church, the changing concepts of the church, and its approach to human problems are studied. **Mr. Martin. 4**

RELIGION 218—CONTEMPORARY AMERICAN RELIGIOUS GROUPS. 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. **Mr. Martin. 4**



Dr. Martin teaches World Religions

RELIGION 301—CHRISTIAN ETHICS. A critical study of the fundamentals of Christian morality as represented in contemporary Christian authors. Recommended is 213-214. **Mr. Scott. 4**

RELIGION 303—CONTEMPORARY RELIGIOUS THOUGHT. A study of the principal contemporary forms (19th and 20th Centuries) 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. **Mr. Scott. 3-4**

RELIGION 304—EXISTENTIALIST THEOLOGY. A study in depth of a major contemporary theologian. The writer's major works will be read and analyzed. **Mr. Scott. 4**

RELIGION 308—NEW TESTAMENT STUDIES. Studies in depth of New Testament subjects: a book such as Romans or one of the Gospels, problems of New Testament research, the problem of the historical Jesus, various concepts of New Testament theology, problems in New Testament literature, or influence of Judaism and Hellenism on the New Testament. **Mr. Eisenbeis. 4**

RELIGION 309—OLD TESTAMENT STUDIES. Studies in depth of Old Testament subjects: the Old Testament in relation to the Ancient Near East (Archaeology), an

Old Testament book such as Job, problems of Old Testament literature, form criticism, literary problems, Hebrew Poetry, concepts of Old Testament theology, or history and culture of Israel. **Mr. Eisenbeis. 4**

RELIGION 311—CHRISTIAN CLASSICS. A careful study of selected writings which have expressed classical forms of the Christian faith, which have significantly influenced the development of Christian thought. In 1968-69 the course will deal with the writings of Soren Kierkegaard. **Mr. Martin. 4**

RELIGION 317—HINDUISM AND BUDDHISM. Intensive study of Hinduism and Buddhism. Emphasis is placed on the mythological, theological, and philosophical bases of these religious systems. Readings are primarily in texts in translation. **Mr. Martin. 4**

RELIGION 324—SEMINAR IN RELIGION AND PSYCHOLOGY. 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. Prerequisites: Junior standing and consent of instructor. **Mr. Woodyard. 4**

RELIGION 336—RELIGION AND CULTURE. 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. **Mr. Martin. 4**

RELIGION 361-362—DIRECTED STUDY. 3

PHILOSOPHY OF RELIGION (See **PHILOSOPHY 401**)

RELIGION 420—SENIOR SEMINAR. Open to Religion majors in their last semester. Content of the Seminar will be determined by the director in consultation with the students. **Staff. 4**

RELIGION 451-452—SENIOR RESEARCH. Staff. 4

RELIGION 461-462—INDIVIDUAL WORK FOR HONORS. 4



Professor Mitchell with students in Union

SOCIOLOGY

PROFESSORS IRVING E. MITCHELL (on leave first semester, 1969-70), DONALD M. VALDES

ASSISTANT PROFESSORS (MRS.) LAUREL R. WALUM (on leave all year), JOSEPH COOPER, ALFRED D. BRADSHAW, CHANCY R. RAWLEIGH, JOHN HOLIAN, JR.

VISITING LECTURER (MRS.) FELICITAS GOODMAN (part-time)

INSTRUCTORS (MRS.) MARJORIE WATSON (part-time), CYRIL G. RANSOPHER (part-time)

CHAIRMAN (1968-71), MR. MITCHELL

ACTING CHAIRMAN (first semester), MR. VALDES

SENIOR FELLOWS KATHLEEN BOND, JANET HUBONA

JUNIOR FELLOW ROGER S. DORRIS

Major in Sociology

THE MAJOR IN SOCIOLOGY is designed to satisfy the needs of three kinds of students—(1) those whose interest is primarily in a liberal education, and who wish to use the discipline to understand social institutions and social change; (2) those who wish to use Sociology as a background for certain occupations, such as the law, the ministry, social work, government service, or business; and (3) those who expect to pursue graduate study in Sociology leading to a teaching, administrative, or research career.

A major in Sociology must earn a minimum of 28 semester-hours of credit in Sociology, including Sociology 207, 301, 416, and 420, and one course each in the areas of social problems, social institutions, and advanced general Sociology. No more than 6 hours of Anthropology (314, 319, 320, and 330) may be counted toward the minimum major requirement of 28 hours in Sociology.

Major in Sociology: Concentrations in Anthropology or Urban Studies
SPECIAL CONCENTRATIONS in Anthropology and Urban Studies are offered by the department. For their specific requirements, consult with the Chairman.

SOCIOLOGY 207—FOUNDATIONS OF SOCIAL LIFE. An introduction to the science of group relationships, with emphasis on the topics of culture, society, personality, role, social class, ecology, community organizations, social institutions, social control, and deviance. Not open to juniors or seniors (See 302.) Offered both semesters.

Staff. 4

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

Staff. 3

SOCIOLOGY 209—SOCIAL PROBLEMS AND SOCIAL POLICY. A critical analysis of selected current social problems, such as mental health, automation, and civil rights, within the framework of certain sociological approaches such as conflict of values. Not open to those with 10 or more hours of Sociology. Prerequisite: 207 or 302 or consent of instructor. Offered second semester.

Staff. 3

SOCIOLOGY 213—EDUCATION FOR MARRIAGE AND FAMILY LIFE. An analysis of marriage and the family within the framework of sociological theory, together with a discussion of such practical topics as courtship, parenthood, family finances, in-law relationships, aging, and the family in the larger community. Prerequisite: 207 or 302 or consent of instructor. Offered both semesters.

Mr. Rawleigh. 3

SOCIOLOGY 301—SOCIAL RESEARCH METHODS. Experience in the design and implementation of social research; current techniques of collecting, analyzing, interpreting, and reporting data. *Required of Sociology majors.* Prerequisites: 207 or 302 and Mathematics 107 or equivalent. Offered first semester.

Mr. Cooper. 4

SOCIOLOGY 302—GENERAL SOCIOLOGY. The sociological perspective applied to the issues of modern society. This course assumes a familiarity with the scientific method. Not recommended for potential majors. Restricted to juniors and seniors (See 207.)

Staff. 4

SOCIOLOGY 307—URBAN SOCIOLOGY. Comparative and interrelated study of urban life considering the physical, institutional, social, cultural, and economic factors of modern living. Prerequisite: 207 or 302. Offered first semester.

Mr. Bradshaw. 4

SOCIOLOGY 308—INTRODUCTION TO SOCIAL WORK. A survey course including a history of social welfare, an analysis of public welfare administration, private agencies, and a descriptive comparison of the methods of social work, casework, group work, and community organization. Prerequisite: 207 or 302. Offered first semester.

Mr. Ransopher. 3

SOCIOLOGY 309—SOCIAL CASEWORK. An introduction to the principles of social casework. Lectures and discussions regarding the development of social casework, relationship theory, the *case study* method, interviewing methods, and the study and use of social process. Case materials and field trips will be used. Prerequisite: 308 or consent of instructor. Offered second semester.

Mr. Ransopher. 3

SOCIOLOGY 311—CRIMINOLOGY. 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. Prerequisite: 207 or 302.

Mr. Mitchell. 4

SOCIOLOGY 312—MINORITY GROUPS. Anthropological, social psychological, and sociological interpretations of racial and ethnic prejudice and discrimination. Prerequisite: 207 or 302. Offered both semesters.

Mr. Mitchell. 4

SOCIOLOGY 313—THE FAMILY. The structural-functional analysis of the family as an institution; its inter-relationships with other social institutions; changing economic and social functions of the family as seen in historical and cultural perspective. Prerequisite: 207 or 302. Offered both semesters.

Mr. Rawleigh. 3

SOCIOLOGY 314—AMERICAN INDIANS. This course explores the history and development of the American Indians from prehistoric times to the present, concentrating primarily on the Indians of North America. This survey course will cover many aspects of Indian culture. Mr. Valdes. 3

SOCIOLOGY 315 — SOCIAL ORGANIZATION. A comparative analysis of the major institutional components of societies and an exploration of the social processes whereby these institutions are maintained, coordinated, and changed. Prerequisite: 207 or 302. Offered first semester. Mr. Cooper. 4

SOCIOLOGY 317—THE SOCIOLOGY OF RELIGION. A study of the structure and function of religious behavior and the relationship of religion with other institutional areas in a society. Prerequisite: 207 or 302. 4

SOCIOLOGY 319—SOUTH AMERICAN INDIANS. Ethnography of Indians south of the Rio Grande with special emphasis on culture contact and culture change. No prerequisites. Mrs. Goodman. 3

SOCIOLOGY 320—WORLD ETHNOGRAPHY. Review of the culture areas of the world outside the western hemisphere on the basis of representative ethnographic studies. No prerequisites. Mrs. Goodman. 3

SOCIOLOGY 330—GENERAL ANTHROPOLOGY. A descriptive, comparative, and generalizing study of man and his culture. No prerequisite: Offered both semesters. Mr. Valdes. 4

SOCIOLOGY 340—COLLECTIVE BEHAVIOR. This course explores the social processes which give rise to crowds, cults, publics, and social movements. Collective behavior is viewed as a primary means of social change and an attempt is made to understand the conditions which precede, accompany, and follow collective action. Prerequisite: 207 or 302 or consent. Mr. Cooper. 3

SOCIOLOGY 345-346—SPECIAL PROBLEMS. Special offerings will be made from time

to time in topics not covered in regular courses. (Examples: Sociology of Science, Military Sociology, Medical Sociology, Alienation, Mass Society, Social Stratification, Sociolinguistics.) Prerequisites: Sociology 207 or 302 and consent. Staff. 3

SOCIOLOGY 361-362 — DIRECTED STUDY. Credit earned will be determined by departmental evaluation. Staff.

SOCIOLOGY 405 — SOCIOLOGY OF THE PRE-SCHOOL CHILD. Introduction to principles and theories underlying education for the pre-school child and to techniques of observing young children and working with them as individuals and in groups. Two hours each week will be spent in the Granville Nursery School. Prerequisites: 15 semester-hours of Psychology and Sociology (in any combination, but must include Psychology 217 and Sociology 213 or 313). Offered both semesters. Mrs. Watson. 3

SOCIOLOGY 415—HUMAN RELATIONS IN INDUSTRY. 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. Prerequisite: 207 or 302. Offered second semester. Mr. Mitchell. 3

SOCIOLOGY 416 — SOCIOLOGICAL THEORY. Analyses of central theoretical questions of Sociology, drawing upon the theories of major sociologists from Comte to the present. Open only to majors or by consent of instructor. Offered both semesters. Mr. Holian. 3

SOCIOLOGY 420 — SEMINAR. Advanced study of special problems suggested by courses already taken. Open only to majors. Mr. Mitchell. 3

SOCIOLOGY 451-452—SENIOR RESEARCH. Staff. 4

SOCIOLOGY 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

SPEECH

ASSOCIATE PROFESSORS WILLIAM R. DRESSER, BRUCE R. MARKGRAF

ASSISTANT PROFESSORS WILLIAM L. HALL, GALE W. J. SIEVERS

CHAIRMAN (1967-70), MR. MARKGRAF

SENIOR FELLOWS JANE THORN, JERRY VELTMANN

JUNIOR FELLOWS SCOTT ELLIOTT, CONNIE REED

Major in Speech

A STUDENT MAJORING IN SPEECH must elect a minimum of 29 semester-hours of credit in the department. A student who chooses a *general speech* emphasis must take either Speech 221 or 222, and 311, 312, and 409. A student who concentrates in *speech science* must take Speech 329, 330, and 331. Students who are interested in secondary school teaching must elect Education 339.

Attention is called to the value of training in speech for students aiming towards careers in law, government, business administration, teaching, the ministry, and mass communication.

SPEECH 101—PUBLIC SPEAKING. A basic course in the development of effective composition and delivery in public speaking. Presentations of original informative and persuasive speeches are individually reviewed. Offered both semesters.

Staff. 2

SPEECH 113—READING ALOUD LITERATURE.

Emphasis is upon the study of literature from the viewpoint of the oral reader. Principles of critical and aesthetic theory and of voice and delivery prepare the student for the re-creative art of oral interpretation of verse, drama, and prose.

Mr. Markgraf. 3

Dr. Markgraf congratulates speech contest winners



SPEECH 218—SPEECH COMPOSITION. A study of principles governing the development, organization, and communication of ideas in formal speeches. Students will compose a limited number of speeches seeking to apply principles derived from theoretical materials and from an examination of famous speeches. Mr. Dresser. 3

SPEECH 221—GROUP DISCUSSION. A study of oral communication in small problem-solving groups. Students will seek to synthesize the traditional logical and psychological approaches to the study of group behavior. Mr. Dresser. 3

SPEECH 222—ARGUMENTATION AND DEBATE: CONTEMPORARY SOCIAL ISSUES. A course in the study of argumentation and of rhetorical techniques essential to the law court and the legislative assembly. Students will explore social problems and advocate solutions within the frameworks of panel discussions, argumentative and rebuttal speeches, direct examination and cross-examination, parliamentary procedure, and debate. Mr. Markgraf. 3

SPEECH 223—PERSUASION. An introduction to the theory and practice of persuasion and an appraisal of its influences upon modern society. Emphasis is placed upon mass persuasion (advertising, propaganda, etc.) and persuasion in speaker-audience, dyadic, and group centered situations. Students will prepare and deliver original persuasive speeches. Mr. Sievers. 3

SPEECH 225—RADIO AND TELEVISION IN SOCIETY. The history of radio and television development; a study of the structure of broadcasting; comparative study of broadcasting practices in other countries; the objectives of radio and television 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 broadcasting. Mr. Hall. 3

SPEECH 227—RADIO PRODUCTION PROCEDURES. Lecture-laboratory course in the production of complex program types; study of production problems, techniques,



Dr. Dresser lectures

and procedure. This course covers actual production from initiation to airing. Prerequisite: Consent of instructor.

Mr. Hall. 3

SPEECH 230—CONTEMPORARY TELEVISION. Spring vacation trip to major television networks in New York City and observation of station operations, studio arrangements, and the productions of various types of programs from rehearsal through performance. An intensive study of network operational policies and procedures precedes the trip; a written report of the trip is required. Estimated cost of trip, exclusive of tuition, is \$100. Prerequisite: Consent of instructor.

Mr. Hall. 2

SPEECH 244—FREEDOM OF SPEECH. A critical analysis of theories and justifications of freedom of expression and of factors which determine the scope and practical exercise of free speech. Political, legal, ethical, and artistic aspects will be examined.

Mr. Markgraf. 3

SPEECH 246—MODERN SPOKESMEN. A study of the speeches of leading contemporary spokesmen for major political, social, and religious movements; emphasis upon textual and contextual approaches; relevant readings in autobiography, biography, and comment. Mr. Markgraf. 3

SPEECH 247—GENERAL SEMANTICS. A study of the impact of the structure of language on the individual's evaluation of the nonverbal world. Attention is concentrated on specific types of misvaluation which result when one assumes that the world possesses certain characteristics implied by the structure of language. Mr. Dresser. 3

SPEECH 250—PSYCHOLOGY OF SPEECH. A study of the psychological factors involved in interpersonal and group communication with special reference given to the application of these principles to public speaking, radio and television, group discussion, and speech correction. Attention is given to the speech personality and the verbal behavior of the disturbed personality. Mr. Hall. 3

SPEECH 304—INTERPERSONAL COMMUNICATION. A seminar course investigating factors affecting communication between individuals. Students undertake projects concerned with such aspects of the communication process as the effect of social roles, semantic barriers to understanding, the effects of feedback on communication, and nonverbal communication. Mr. Dresser. 3

SPEECH 306—PROBLEMS IN ORAL COMMUNICATION. A study of certain principles of oral communication through an analysis of specific cases where the communication process broke down, often with dramatic or disastrous results. Cases are drawn from such areas as education, government, business, and the arts. Mr. Dresser. 3

SPEECH 308—COMMUNICATION, MAN AND SOCIETY. A study of language as instrumental in shaping man's personality and in structuring his culture. Typical topics studied are the relationship of communication to thought, to social perception, to ethical and aesthetic judgments, to mysticism, and to social values. Mr. Sievers. 3

SPEECH 311—AGITATORS, ADVOCATES, AND SOCIAL REFORM. An historical approach to current issues and methods of social reform, especially concerning the racial question. The values, objectives, and rhetorical techniques of advocates and agitators are studied by analyzing the premises, arguments, appeals, and persuasive strategies imbedded in speeches, debates, campaigns, and organized reform movements. Mr. Sievers. 4

SPEECH 312—COMMUNICATION THEORY AND CRITICISM. A survey (1) of theories and (2) of standards and methodologies used in understanding and appraising the practice of communication. Classical and humanistic theories and standards are compared with those derived from the technological and empirical sciences, i.e. Platonic Aristotelian, Burkean, etc. Communication theories are compared with models and standards derived from semantics, cybernetics, S.R. behaviorism, etc. Mr. Sievers. 4

SPEECH 314—RHETORICAL CRITICISM. A description and evaluation of contemporary methods used in appraising rhetorical discourse. Emphasis is on the theory underlying a variety of critical standards and a knowledge of how to select, arrange, and apply critical criteria to different forms of communication. Mr. Sievers. 3

SPEECH 329—APPLIED PHONETICS. A study of significant speech sounds and the application of phonetic concepts to both normal and aberrant speech for evaluative purposes. Mr. Hall. 3

SPEECH 330—VOICE AND DICTION. A lecture-laboratory course designed to further the student's mastery of English speech. Mr. Hall. 3

SPEECH 331—INTRODUCTION TO SPEECH CORRECTION. The relations of speech to mental hygiene; the study of speech disorders and defects; diagnosis and therapeutic theories. Mr. Hall. 4

SPEECH 332—DIALECTS. A study of foreign dialects for radio, television, and theater, with special emphasis on phonetic changes and intonational patterns. Mr. Hall. 3

SPEECH 361-362—DIRECTED STUDY. Staff. 3

SPEECH 409—SEMINAR IN SPEECH. Readings and reports on special topics. Mr. Markgraf. 3

SPEECH 451-452—SENIOR RESEARCH. Staff. 4

SPEECH 461-462—INDIVIDUAL WORK FOR HONORS. Staff. 4

TEACHING OF SPEECH (See EDUCATION 339.)



University Theatre presents "Marat/Sade"

THEATRE ARTS

PROFESSOR WILLIAM BRASMER (on leave all year)

ASSISTANT PROFESSORS R. ELLIOTT STOUT, PAUL S. HOFFMAN, PATRICIA RYAN

VISITING LECTURERS ALI Z. ELGABRI, WILLIAM J. L. REES

CHAIRMAN (1968-71), MR. BRASMER

ACTING CHAIRMAN (1969-70), MR. STOUT

THE THREE-HOUR BASIC REQUIREMENT in the Arts may be satisfied by taking 103, 105, 111, 215, 323, 324, or 325.

Major in Theatre Arts

A CANDIDATE FOR THE BACHELOR OF ARTS in Theatre Arts degree shall elect 30-40 semester hours of credit. Among the courses should be 111, 113, 215, 317, 323, 324, 415, or 426.

The candidate for the Bachelor of Fine Arts degree in Theatre Arts shall elect 46-56 semester hours of credit.

In the freshman year the Bachelor of Fine Arts candidate should carry the second year of the foreign language carried in high school or French 111-112. Theatre courses should be Theatre Arts 111, 113, 215, and 229.

THEATRE ARTS 101—BEGINNING ACTING.

A study of the process of acting from script analysis to characterization with specialized work on voice development. Restricted to non-majors and designed to satisfy the Oral Communications requirement.

Miss Ryan, Mr. Stout. 2

THEATRE ARTS 103—FORMS OF THEATRE

ARTS. Basic study of the form, function, and history of the performing arts—theatre, film, and television. Mr. Rees, Mr. Stout. 3

THEATRE ARTS 105—FORMS OF THEATRE

ARTS. Follows study plan of 103, but sub-

stitutes active participation in theatre production for the writing of critical reports and outside reading. Mr. Stout. 3

THEATRE ARTS 111—INTRODUCTION TO THE THEATRE. Intensive introduction to the study and practice of the arts and the literature of the theatre. Offered both semesters. Mr. Rees. 4

THEATRE ARTS 113—DRAMATIC INTERPRETATION. Dramatic interpretation of the intellectual and emotional content in literature with special emphasis and intensive work on individual voice and diction problems and the use of control and suggestive action in both voice and body. *Not open to students who have had Speech 113.* Miss Ryan. 3

THEATRE ARTS 115, 116, 117—THEATRE PARTICIPATION. Theatre activity is open to all students in the University. Non-majors may, if they wish, receive credit toward their undergraduate degree by participation in the productions of the University Theatre and the Experimental Theatre. A student may enroll up to the eighth week of any semester on written permission of the departmental chairman. No student may enroll in the last semester of his senior year. *These courses may fulfill three hours of the Fine Arts requirement from the recommended list (not the basic requirement).* 1

THEATRE ARTS 215—PRODUCTION FOR NON-COMMERCIAL THEATRE. Play selection, analysis, organization, management, direction, and technical design of plays for non-commercial theatre. Offered both semesters. Meets teacher certification for theatre. Mr. Hoffman, Mr. Stout. 4

THEATRE ARTS 225—CONTEMPORARY THEATRE. Attendance at productions in New York during spring vacation, preceded by study of contemporary theatre and followed by a written report. Estimated cost of trip, exclusive of tuition, is \$200. Mr. Stout. 2

THEATRE ARTS 229—ACTING: PHYSICAL TECHNIQUE. The beginning course for majors interested in performance. Use of pantomime, improvisation, and gymnastics to develop a controlled flexibility in the use of the bodily mechanism. Prerequisite: Consent of instructor. Course repeatable on non-credit basis. Miss Ryan. 2

THEATRE ARTS 230 — ACTING: SCENE STUDY. The scene as a unit of theatrical form approached in terms of focus and interaction between characters. Offered each semester. Prerequisite: Consent of instructor. Course repeatable for one credit. Staff. 2

Scene from Shakespeare's "Measure for Measure"



THEATRE ARTS 231—ACTING: CHARACTERIZATION. The factors in the script which determine characterization and the creation of these factors in specific roles. Offered each semester. Prerequisite: Consent of instructor. Course repeatable for one credit.

Staff. 2

THEATRE ARTS 232—ACTING: PERSONAL STYLE. The developing of a personal point of view in approaching the creation of a vital presence on the stage. Offered each semester. Entrance by audition. Repeatable once for one credit.

Staff. 2

THEATRE ARTS 240—CHILDREN'S THEATRE. The critical study of children's literature both in prose and play form leading to a conception of the art of Children's Theatre from writing to production. Creative dramatics is also treated to emphasize the creative imagination within children.

Miss Ryan. 3

THEATRE ARTS 301—SCENIC DESIGN AND STAGE LIGHTING. Theory and practice of scene and lighting design. Prerequisite: 317 or consent of instructor.

Mr. Hoffman. 4

THEATRE ARTS 317—TECHNICAL THEATRE. Lecture and laboratory in scenery construction and painting, sound, stage management, and lighting. May include costuming under some circumstances. Class work with all productions.

Mr. Hoffman. 4

THEATRE ARTS 323—THEATRE HISTORY. Survey of World Theatre from the Greeks to 1880, exclusive of America. Emphasizes influences—cultural, social, and political—as well as personalities, methods of production, and development of drama.

Mr. Stout. 4

THEATRE ARTS 324—HISTORY OF AMERICAN THEATRE. From the 18th Century to present. Offered in 1970-71.

Mr. Brasmer. 4

THEATRE ARTS 325—THE HISTORY OF THE MODERN THEATRE. Survey of World Theatre History from 1880 to the present day, exclusive of America. Particular emphasis is placed on the various revolutionary

movements of the continental and British theatre in the first four decades of the 20th Century. (Offered in 1970-71.)

Mr. Stout. 4

THEATRE ARTS 326—HISTORY AND AESTHETICS OF FILM. A survey of the social and aesthetic history of the film from its beginnings as a record of historical reality to the emergence of the filmic reality in the contemporary film. Offered in 1970-71.

Mr. Brasmer. 4

THEATRE ARTS 361-362—DIRECTED STUDY.

Staff. 3

THEATRE ARTS 401—THEATRE PRACTICUM. Theory and creative practice in selected areas of theatre arts for the talented and superior student. As registration warrants, the areas listed below will be offered. No more than 15 credit-hours in these areas will be counted toward graduation.

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

Staff. 2-15

THEATRE ARTS 415—PLAY DIRECTION. Theory and practical work in direction. Each student is responsible for selecting, casting, rehearsing, and producing one-act or longer plays presented in the Experimental Theatre. Prerequisites: 15 hours of Theatre Arts and consent of instructor.

Miss Ryan. 3

THEATRE ARTS 426—THEORY OF THE THEATRE. The analysis and comparison of dramatic theories from Aristotle to the present, with emphasis on recent and current issues in theatrical theory, criticism, and scholarship. Prerequisite: junior standing. (Offered in 1970-71.)

Mr. Brasmer. 4

THEATRE ARTS 451-452—SENIOR RESEARCH.

Staff. 4

THEATRE ARTS 461-462—INDIVIDUAL WORK FOR HONORS.

Staff. 4

VISUAL ARTS

PROFESSORS HORACE KING (on leave first semester, 1969-70), JAMES W. GRIMES,
ERIC E. HIRSHLER

ASSISTANT PROFESSORS MICHAEL JUNG, PAUL S. HOFFMAN (part-time)

LECTURER (MRS.) MARY K. CAMPBELL

INSTRUCTOR RALPH C. KOMIVES

VISITING LECTURERS (part-time) (MRS.) TERRY E. BAILEY, DAVID CAMPBELL

GLCA TEACHING ASSOCIATE DALE F. BOGASKI

CHAIRMAN (1968-71), MR. HIRSHLER

SENIOR FELLOWS ROBERT J. DICK, WANDA SOLEZ

THE THREE-HOUR BASIC REQUIREMENT in the Arts may be satisfied by taking 101, 103a, 103b, 103c, 121, or six hours in Studio or Art History courses.

Major in Art

THE VISUAL ARTS Department offers courses for two degrees—Bachelor of Arts with a major in Art and a Bachelor of Fine Arts.

The candidate for the Bachelor of Arts degree may take up to 52 semester-hours of credit. The minimum requirement in the Visual Arts is 24 semester-hours.

The candidate for a Bachelor of Fine Arts degree may take a maximum of 70 semester-hours of credit in the Studio, Art History, and related fields. For this degree the candidate is privileged, with the consent of the departmental chairman, to substitute up to nine semester-hours of credit from the recommended list for Specified Requirements. The minimum requirement in the Visual Arts is 44 semester-hours. No less than 6-9 hours of Art History are required.

Prospective students who apply for admission for the B.F.A. degree are invited to submit a portfolio between the middle and end of February.

The student may elect to work toward either degree in the following programs:

Art History offers two kinds of majors. There is the professional major for students who plan for graduate school and a career in criticism, connoisseurship, conservation (care and restoration of works of art), and teaching Art History or working in a museum. An Art History major may also work toward a secretarial or managerial position in government, private industry, and publishing upon completion of the B.A. or B.F.A. degree. The B.A. is the typical degree in this program although under certain circumstances a B.F.A. may be recommended in consultation with advisers and the chairman. In addition to meeting the departmental minimum semester-hours, an Art History major is advised to take one or two courses in the Studio field and to take foreign languages.

Studio Major is offered for the student who plans a career as an artist or as an artist working as a college or high school teacher of Art. Areas of studio concentration offered in this program are Ceramics, Graphics, Painting, and Sculpture. The B.F.A. is typical of this major, although it is possible to major in the Studio field as a B.A. candidate. Students planning to take the B.F.A. degree must elect this program no later than the first semester of the sophomore year. Any student whose interest lies in the Studio area should enroll in 111-112 and 113-114 in the freshman year. B.A. candidates majoring in Studio may take up to 40 hours in Studio courses. In addition, 9-12 hours in related fields such as Art History are required.

All programs are individually planned by the student with departmental personnel as advisers. 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.

Studio Art	B.A.	B.F.A.*	Art History	B.A.	B.F.A.*
Max. hrs.	40	70	Max hrs.	52	70
Min. hrs.	24	44	Min. hrs.	24	44
Art Hist.			Art Hist.		
Requirement	9-12	6-9	Requirement	-	24
			Studio	2 courses	44
			Requirement	rec.	rec.

History of Art Courses

VISUAL ARTS 101—FORMS OF VISUAL ARTS. Illustrated lectures dealing with a topical survey of the visual arts including architecture, sculpture, painting, and the minor arts. Mr. King. 3

VISUAL ARTS 121—FIELD TRIP. 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. Staff. 3

VISUAL ARTS 205-206—HISTORY OF ART SURVEY. General survey of the Arts of the Western World. Ancient and Medieval (first semester); Renaissance and Modern (second semester). May be taken separately. Mr. Hirshler, Mr. King. 3

VISUAL ARTS 303—ART OF ANTIQUITY, GREEK AND ROMAN. 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. Staff. 4

VISUAL ARTS 304—MIDDLEVEAL ART. A selective survey of Early Christian, Byzantine, Romanesque, and Gothic Arts considered in their social and cultural context. Mr. Hirshler. 4

VISUAL ARTS 305—RENAISSANCE ART. Study of architecture, sculpture, and painting of the Italian-centered Renaissance be-

*Substitutions are permitted in the general college requirements.

ginning with the Humanism of Giotto in the Trecento and through the Mannerist crisis of the early 1600's. Mr. King. 4

VISUAL ARTS 306—BAROQUE ART. The Art of Italy, France, The Netherlands, and Germany from 1600 to 1750 with emphasis on Rubens, Rembrandt, Poussin, Bernini, Mansart, and others. Mr. Hirschler. 3

VISUAL ARTS 307—ORIENTAL ART. A comprehensive study of the Art of India, China, and Japan approached through the religions and cultures of the Orient. Mrs. Bailey. 4

VISUAL ARTS 308—ISLAMIC ART. A survey of Moslem Art from the 7th Century A.D. to the 17th Century, covering architectural monuments in Syria, Egypt, Tunisia, Spain, Turkey, Persia, and India; painting in Syria, Persia, and India; and ceramics, rugs, and metal work. Religious, political, and social factors of Islam are studied in relation to the works of art. Mrs. Bailey. 4

VISUAL ARTS 309—AFRICAN TRIBAL ART IN RELATIONSHIP TO PRIMITIVE ARTS. A series of coordinated lectures. 4

VISUAL ARTS 310—BURMESE ART. A seminar in the study of the arts and crafts of Burma, using the Denison Collection and archives. The course deals directly with sculpture, lacquerware, and textiles from a South East Asian provenance and includes study of the religion and social customs of the area, tracing beginnings in India and China and periods of influence from these areas as well as Thailand. Mrs. Bailey. 2



Pictured with marble statue of Daphne and Apollo are Mrs. Campbell, Dr. Grimes (left), and Dr. Hirschler

VISUAL ARTS 311—PRACTICUM AND HISTORY OF STAINED GLASS. A combined studio and art history course in which historic and modern stained glass techniques and design principles are studied and practiced. Prerequisites: Visual Arts 112 and 114. (Not offered in 1969-70.) 4

VISUAL ARTS 407-408—MODERN ART. First semester covers from the end of the French Revolution, i.e. ca. 1795-1880's, painting, sculpture, and architecture, and the developments usually classified under Romanticism, Classicism, and Eclecticism. Second semester covers from the late or post impressionism to, and including the contemporary scene. May be taken separately. Mr. Hirshler. 3

VISUAL ARTS 425—ART IN AMERICA. A survey of the Arts in America from the colonization and settlement to the contemporary scene with emphasis on continental influences in the early years, and the later contributions of America to contemporary Europe. Mr. King. 4

Studio Courses

VISUAL ARTS 103a—ELEMENTS OF VISUAL ARTS. Studio Art appreciation. Problems in drawing and water color, painting to acquaint the student with the contemporary painter's visual vocabulary of form and to test the student's interest and range of ability in the Visual Arts.

Mr. Grimes and Staff. 2-3

VISUAL ARTS 103b—ELEMENTS OF VISUAL ARTS. Studio Art appreciation. Problems in two- and three-dimensional design to acquaint the student with the contemporary designer's visual vocabulary of form and to test the student's interest and range of ability in the Visual Arts. If a student takes 103b after having taken 103c, permission must be given by the instructor.

Mrs. Campbell. 3

VISUAL ARTS 103c—ELEMENTS OF VISUAL ARTS. Studio Art appreciation. Problems in two- and three-dimensional design to acquaint the student with the contemporary designer's visual vocabulary of form and to test the student's interest and range of ability in the Visual Arts. If a student takes 103c after having taken 103b, permission must be given by the instructor.

Mr. Komives. 3

VISUAL ARTS 111-112—DRAWING. Drawing from still life, figure, and landscape with problems in composition and perspective. Should be taken concurrently with 113-114 if student intends to major in Art.

Mrs. Campbell, Mr. Jung. 2

VISUAL ARTS 113-114—DESIGN. Line, plane, and volume problems in black and white,

color, and 3-dimensional materials. Should be taken concurrently with 111-112 if student intends to major in Art.

Mrs. Campbell. 2

VISUAL ARTS 211-212—LIFE DRAWING. Study from the human figure in charcoal and other media with emphasis on structure in line, value, and color. Prerequisites: 112 and 114.

Mr. Jung. 4

VISUAL ARTS 215—PAINTING. 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.

Mr. Jung. 4

VISUAL ARTS 221-222—CERAMICS. Basic techniques of building ceramic forms by hand and by wheel as well as by glaze formula, decorative techniques, and the firing process. The second semester work concentrates on ceramic sculpture. 3

VISUAL ARTS 231—GRAPHICS. The several media of printmaking include woodcut, linoleum, and etching in black and white and in color. Prerequisites: 112 and 114.

Mrs. Campbell. 4

VISUAL ARTS 241-242—SCULPTURE. Experiments in three-dimensional design in various media including clay, casting in plaster, and direct work in wood. 3

VISUAL ARTS 315-316—INTERMEDIATE PAINTING. Prerequisite: 215.

Mr. Jung. 3



*View of
Art Gallery
in Slayter Union*

VISUAL ARTS 351—TECHNICAL DRAWING AND INDUSTRIAL DESIGN. Lettering, technical drawing, and design with hand and power tools applied to product design and graphic representation. Prerequisites: 111 and 113 (for majors). (Not offered first semester, 1969-70.) **Mr. King. 4**

VISUAL ARTS 361-362. DIRECTED STUDY. 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. **3**

VISUAL ARTS 401—VISUAL ARTS PRACTICUM. Theory and creative practice in selected areas of the visual arts for the talented and superior student. As registration warrants, the areas listed below will be offered. No more than 18 semester-hours

of credit will be counted toward graduation.

- a. Figure and Portrait Painting
- b. Design
- c. Historic Methods and Materials of Painting and Drawing
- d. Ceramics
- e. Sculpture
- f. Graphics
- g. Commercial Art
- h. Fashion Illustration
- i. Seminar in Art Theory

2-18

VISUAL ARTS 451-452—SENIOR RESEARCH.
Staff. 4

VISUAL ARTS 461-462—INDIVIDUAL WORK FOR HONORS.
Staff. 4

TEACHING OF PUBLIC SCHOOL ART (See EDUCATION 341.)

NON-MAJOR AREAS

AEROSPACE STUDIES

MAJOR ROBERT E. NUGENT, MAJOR CHARLES M. PERKINS, CAPT. JOSEPH E. ENTSINGER

CHAIRMAN (1969-72), MAJOR NUGENT

THE DEPARTMENT OF AEROSPACE STUDIES offers the male college student at Denison the opportunity to obtain an officer's commission in the United States Air Force through enrollment in the Air Force Reserve Officer Training Corps (AFROTC). The student may select either the four-year or two-year AFROTC program.

To participate in the four-year program the student enrolls in AFROTC in his freshman year and continues enrollment for his four years at Denison. The four-year program includes the basic course consisting of the freshman and sophomore years and the advanced course taken during the junior and senior years. Enrollment in the basic course does not require a commitment on the part of the student. Enrollment in the advanced course at the beginning of the junior year requires a written commitment on the part of the student in both the four-year and two-year program to accept a commission in the Air Force and to serve on active duty for a period of four years in a non-rated category, or, for six years if in a rated category of pilot or navigator.

The four-year student attends field training of four weeks at the end of his junior year. This training camp is conducted at an Air Force base, and the student is paid \$140 plus travel pay of six cents per mile to and from base. Meals, lodging, and uniforms are provided at no cost to the student while at the training unit.

To qualify for the two-year program the student must successfully complete the Air Force Officer Qualification Test (AFOQT) and an Air Force Physical Examination in the second semester of his sophomore year. He must then attend a six-week field training camp at the end of his sophomore year. This training takes the place of the two-year basic course at Denison. The pay for the six-week summer training session is approximately \$120 plus travel pay, meals, lodging, and uniforms. The student who successfully completes the six-week summer training may enroll in the advanced course at the beginning of his junior year.

The Air Force uniform, including shoes, is provided without cost to the student and is worn one day a week. The student is responsible for the proper care of the uniform. Textbooks and other instructional materials are supplied without cost by the Department of Aerospace Studies.

All cadets are eligible for the AFROTC Band and Drill Team on a voluntary basis. Outstanding advanced students are eligible for selection as members of the Arnold Air Society and for appointment as Distinguished Cadets and Distinguished Graduates.

The Flight Instruction Program provides each senior qualified for Pilot Training with 36½ hours of flight training in light aircraft at no expense to the student.



Major Perkins leaving Aerospace Center with cadet leaders

Advanced course students (juniors and seniors) are paid a retainer pay of \$50 per month, except while at summer training camp, for a period not to exceed 20 months. Four-year students who qualify for the Scholarship Program receive a retainer pay of \$50 per month plus full tuition, fees, and textbooks.

Delays from active duty are provided to those students who desire to attend graduate school prior to starting their commissioned service. Law school graduates enter on active duty as 1st Lieutenants and medical school graduates enter on active duty in the rank of Captain.

Officers who do not desire to continue graduate work are normally scheduled for active duty in the career area of their choice within 90 days after graduation.

Enrollment in AFROTC is accomplished by registering for the appropriate Aerospace Studies course during registration. Staff members of the Department of Aerospace Studies are available for consultation at anytime during the year, including the summer months.

Scholarships and Financial Assistance

THE UNITED STATES AIR FORCE makes available scholarships to four-year students enrolled in the AFROTC program at Denison. Scholarship students are selected on a competitive basis. Selection is based on academic achievement, score on the Air Force Officer Qualification Test, and the evaluation of a scholarship review board. Final competition is on a nationwide basis.

Under this AFROTC scholarship program, the Air Force pays the cost of tuition, books, fees, supplies, and equipment plus a monthly subsistence pay of \$50.

AEROSPACE STUDIES 101-102—WORLD MILITARY SYSTEMS. An introductory course exploring the causes of present world conflict as they affect the security of the United States. This includes analysis of national policy and power, including factors and instruments, the U.S. defense establishment, with emphasis on the United States Air Force and strategic offensive and defensive forces.

Major Nugent. 1

AEROSPACE STUDIES 201-202—WORLD MILITARY SYSTEMS. This is a continuation of AS 101-102, with emphasis on U.S. general purpose forces and U.S. aerospace support forces. Trends and implications of world military power are discussed to include the conflict between communistic and democratic forces and the threats, prospects and strategy for peace.

Major Nugent. 1

AEROSPACE STUDIES 250—SIX-WEEK FIELD TRAINING. A six-week summer training camp conducted only for two-year AFROTC students at the end of the sophomore year. Two periods of training will be offered, one in June-July, and one in August-September. Consists of orientation to the U.S. Air Force, military history, development of communicative skills, physical training, and development of leadership skills. No letter grade assigned. Credit indicated by "P" for passed. *Not included in computation of grade-point average.* U.S. Air Force Tactical Officers. 3

AEROSPACE STUDIES 301-302—GROWTH AND DEVELOPMENT OF AEROSPACE POWER. A survey course about the development of airpower in the United States; mission

and organization of the Defense Department; Air Force concepts, doctrine, and employment; astronautics and space operations; and the future development of aerospace power. Includes the United States space programs, vehicles, systems, and problems in space exploration.

Capt. Entsminger. 3

AEROSPACE STUDIES 350—FOUR-WEEK FIELD TRAINING. Credit for this course will not be awarded unless it is taken in the summer prior to the senior year. This course consists of a survey in depth of various Air Force Officers' career areas, an examination through field trips and lectures of the day-to-day operation of an Air Force Base and its place in the Air Force command structure; the presentation and solving of problem situations; an introduction to survival techniques and flight operations; emphasis will be maintained on development of initiative, communicative skills and leadership capabilities. Credits will be indicated by "P" for passed. *Credits will not be included in computation of grade-point average.* Two periods of training will be offered, one in June-July and one in July-August.

U.S. Air Force Tactical Officers. 2

AEROSPACE STUDIES 401-402—THE PROFESSIONAL OFFICER. A study of professionalism, leadership, and management. The course includes the meaning of professionalism, professional responsibilities, the Military Justice System; leadership theory, functions, and practices; management principles and functions; problem solving; and management tools, practices, and controls.

Major Perkins. 3

Professor Stephens hears discussion in Contemporary Political Thought seminar





Professor King with pre-engineering students

ENGINEERING GRAPHICS

PROFESSOR HORACE KING

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 departmental chairman in his field of engineering interest.

ENGINEERING GRAPHICS 111—THEORY AND PRACTICE IN ELEMENTARY DRAFTING. A course in drafting practice with selected problems in standard orthographic projection, layout and lettering, elementary freehand sketching, and exercises in point, line, and plane to acquaint the student with procedures in Engineering Geometry. 3

ENGINEERING GRAPHICS 112—THEORY AND PRACTICE IN ADVANCED DRAFTING. Second semester includes more complex problems in design drawing, advanced freehand sketching, pictorial techniques, and the geometry of developments and intersections. Prerequisite: 111. 3

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Physician

LAWRENCE H. MILLER, A.B., M.D.

Physician (part-time)

***On leave all year, 1969-70

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***On leave all year, 1969-70



Curtis Dining Hall

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A.B., A.M., Ph.D., Univ. of Michigan; Pd.D., Otterbein College; L.H.D., Drury College.
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A.B., Dartmouth College; A.M., Ph.D., Princeton Univ.
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A.B., Denison Univ.
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B.S., Denison Univ.; M.A., Univ. of Chicago.
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RUTH A. OUTLAND (MISS), 1941-64 *Director-Emeritus of Public Information*
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Some of the authors on the Faculty are (from left) Dr. Roy D. Morey, Prof. Paul L. Bennett, Dr. Ronald E. Santoni, Dr. Donald M. Valdes, Dr. G. Wallace Chessman, and Dr. Natalie M. Shepard



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***WILLIAM W. NICHOLS, 1966- *Assistant Dean of the College
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* * * * *

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B.S., Univ. of Pittsburgh; M.S., Ph.D., Univ. of Illinois.

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A.B., M.A., Wellesley College.

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***On leave all year, 1969-70

- WILLIAM J. BISHOP**, 1967- *Assistant Professor of Political Science*
B.A., M.A., Northwestern Univ.
- DALE F. BOGASKI**, 1969- *GLCA Teaching Associate, Visual Arts*
B.F.A., Univ. of Michigan.
- ELLIOT D. BORISHANSKY**, 1968- *Assistant Professor of Music*
B.A., Queens College; M.A., Columbia Univ.
- D. DONALD BONAR**, 1965-68, 1969- *Assistant Professor of Mathematics*
B.S.Chem.Eng., M.S., West Virginia Univ.; Ph.D., Ohio State Univ.
- KENNARD B. BORK**, 1966- *Assistant Professor of Geology and Geography*
B.A., DePauw Univ.; M.A., Ph.D., Indiana Univ.
- R. LEE BOSTIAN**, 1966- *Professor and Chairman, Music,
and Chairman, Fine Arts*
B.A., M.A., Ph.D., University of North Carolina.
- ALFRED D. BRADSHAW**, 1968- *Assistant Professor of Sociology*
A.B., M.A., Syracuse Univ.
- LOUIS F. BRAKEMAN**, 1962- *Professor and Chairman, Political Science*
A.B., Kalamazoo College; M.A., Ph.D., Tufts Univ.
- *****WILLIAM BRASMER**, 1948- *Professor and Chairman, Theatre Arts*
B.S., M.A., Northwestern Univ.
- JOHN B. BROWN**, 1952- *Professor of Chemistry*
B.S., Univ. of Kentucky; Ph.D., Northwestern Univ.
- EMMETT H. BUELL, JR.**, 1969- *Assistant Professor of Political Science*
B.A., M.A., Louisiana State Univ.
- TOMMY R. BURKETT**, 1963- *Associate Professor of English*
B.A., M.A., Rice Univ.; Ph.D., Univ. of Kansas.
- THOMAS G. BURNEY**, 1967- *Assistant Professor of Economics*
B.A., Univ. of Iowa; B.D., McCormick Theological Seminary; M.S., Univ. of Wisconsin.
- FRANCOIS A. CAMOIN**, 1968- *Assistant Professor of English*
B.A., M.A., Univ. of Arizona; Ph.D., Univ. of Massachusetts.
- MARY KAY CAMPBELL (MRS.)**, 1956- *Lecturer in Visual Arts*
- MARJORIE CHAN (MISS)**, 1968- *Assistant Professor of Music*
B.M., Oberlin College; M.M., Indiana U.; D.M.A., Univ. of Southern California.

***On leave all year, 1969-70

- G. WALLACE CHESSMAN**, 1950-51, 1953- *Professor, Alumni Chair of History*
A.B., M.A., Ph.D., Harvard Univ.
- WILLIAM K. CHUNG**, 1965- *Assistant Professor of Economics*
B.A., National Taiwan Univ.; M.A., Univ. of Nebraska.
- RONALD H. CLARK**, 1969- *Assistant Professor of Political Science*
A.B., Univ. of California, Riverside; M.A., Univ. of California, Santa Barbara.
- DOMINICK P. CONSOLO**, 1958- *Professor of English
and Chairman of Interdepartmental Seminars*
B.A., M.A., Miami Univ.; Ph.D., Univ. of Iowa.
- JOSEPH COOPER**, 1967- *Assistant Professor of Sociology*
B.A., Lynchburg College; M.A., Ohio State Univ.
- ALBERT W. DAVISON, JR.**, 1965- *Director of Vocational Services and
Institutional Research*
B.A., Denison Univ.; B.S.Ed., M.A., Ohio State Univ.
- WILLIAM C. DENNIS**, 1968- *Assistant Professor of History*
A.B., Earlham College; M.A., Yale Univ.
- LAWRENCE A. DILS**, 1966- *Physician for Student Health Service*
B.A., Miami Univ.; M.D., Univ. of Cincinnati.
- LENTHIEL H. DOWNS**, 1947- *Professor of English*
B.A., Tusculum College; M.A., Ph.D., Univ. of Iowa.
- RICHARD R. DOYLE**, 1967- *Assistant Professor of Chemistry*
B.S., Drexel Inst. of Technology; M.S., Ph.D., Univ. of Michigan.
- WILLIAM R. DRESSER**, 1960- *Associate Professor of Speech*
B.A., Denison Univ.; M.A., Ph.D., Northwestern Univ.
- BURTON W. DUNFIELD**, 1950- *Director of Admissions*
B.S., Bates College.
- WALTER EISENBEIS**, 1961- *Associate Professor of Religion*
Ph.D., Univ. of Chicago.
- ALI Z. ELGABRI**, 1970- *Visiting Lecturer in Theatre Arts
(second semester) (part time)*
B.A., Univ. of Cairo; B.A., M.A., U.C.L.A.; Ph.D., Ohio State Univ.
- MARIETTA G. EMONT (MRS. M. D.)**, 1958- *Instructor in Modern
Languages (part-time)*
B.A., M.A., Univ. of Wisconsin.
- MILTON D. EMONT**, 1954- *Professor of Modern Languages*
B.A., New Jersey State College, Montclair; M.A., Middlebury College;
Ph.D., Univ. of Wisconsin.

- CAPT. JOSEPH E. ENTSMINGER, USAF, 1968- *Assistant Professor of Aerospace Studies*
B.A., Coe College.
- THOMAS A. EVANS, 1968- *Assistant Professor of Chemistry*
A.B., Grinnell College; Ph.D., Michigan State Univ.
- EGBERT W. FISCHER, 1961- *Associate Professor of Music*
B.A., Harvard Univ.; M.A., Western Reserve Univ.
- DANIEL O. FLETCHER, 1966- *Professor of Economics*
A.B., Oberlin College; M.A., Ph.D., Univ. of Michigan.
- LUCETTA FOGEL (MRS. NORMAN J.), 1969- *Instructor in Modern Languages*
Diploma, Univ. of Besancon; B.S., Indiana Univ. (Pa.); M.A., Ohio State Univ.
- THOMAS F. GALLANT, 1965- *Associate Professor and Chairman, Education*
B.A., Ohio Wesleyan Univ.; M.Ed., Univ. of Maryland; Ed.D., Western Reserve Univ.
- GORDON L. GALLOWAY, 1967- *Associate Professor of Chemistry*
B.S., Franklin and Marshall College; Ph.D., Michigan State Univ.
- *F. TREVOR GAMBLE, 1963- *Associate Professor and Chairman, Physics*
A.B., Colgate Univ.; M.A., Ph.D., Univ. of Connecticut.
- MARIA C. GARCIA (MRS. RAMON J.), 1969- *Instructor in Modern Languages*
Teacher's degree, Normal School for Teachers (Cuba); Pd.D., Central Univ. of Las Villas (Cuba); M.A., Ohio State Univ.
- DAVID A. GIBBONS, 1961- *Assistant Professor of Religion and Executive Secretary, Denison Christian Association*
A.B., Oberlin College; B.D., S.T.M., Yale Univ.
- GEORGE L. GILBERT, 1964- *Associate Professor and Chairman, Chemistry*
B.S., Antioch College; Ph.D., Michigan State Univ.
- DAVID A. GOLDBLATT, 1968- *Assistant Professor of Philosophy*
B.A., Brooklyn College.
- GEORGE S. GOLDSTEIN, 1969- *Assistant Professor of Psychology*
B.A., Florida State Univ.; M.A., Univ. of Richmond; Ph.D., Colorado State Univ.
- FELICITAS D. GOODMAN (MRS.), 1968- *Visiting Lecturer in German and Linguistics*
Diploma, Univ. of Heidelberg (Germany); M.A., Ohio State Univ.
- DALE S. GOOGINS, 1962- *Assistant Professor of Physical Education*
B.S., M.Ed., Bowling Green State Univ.

*On leave first semester, 1969-70

Personnel

MICHAEL D. GORDON, 1968- *Assistant Professor of History*
B.A., M.A., Univ. of Chicago.

CHARLES E. GRAHAM, 1953- *Professor and Chairman, Geology and Geography*
B.S., M.S., State College of Washington; Ph.D., Univ. of Iowa.

RODERICK M. GRANT, JR., 1965- *Assistant Professor of Physics*
B.S., Denison Univ.; M.S., Ph.D., Univ. of Wisconsin.

JAMES W. GRIMES, 1961- *Professor of Visual Arts*
B.F.A., M.F.A., Cornell Univ.; Ph.D., Ohio State Univ.

ARNOLD GRUDIN, 1953- *Professor of Mathematics*
B.A., New York Univ.; M.A., Columbia Univ.; Ph.D., Univ. of Colorado.

WILLIAM L. HALL, 1954- *Assistant Professor of Speech*
B.A., M.A., West Virginia Univ.

JAMES F. HAMILTON, 1969- *Assistant Professor of Modern Languages*
B.A., Kent State Univ.; M.A., Ohio State Univ.

ANTHONY HAMMER, 1969- *Instructor in English*
A.B., Oakland Univ.; M.A., Univ. of Chicago.

MARGARET HANSON (MRS.), 1969- *Assistant Reference Librarian*
B.A., Upper Iowa Univ.; M.S. in L.S., Univ. of Kentucky.

ELIZABETH HARTSHORN (MISS), 1957- *Dean of Women and Professor of Personnel Psychology (part-time)*
B.S., Connecticut College for Women; M.A., Columbia Univ.; Ed.D., Univ. of California at Los Angeles.

*ROBERT R. HAUBRICH, 1962- *Professor of Biology*
B.S., M.S., Michigan State Univ.; Ph.D., Univ. of Florida.

CHARLES K. HENDERSON, 1956-61, 1963- *Director of Public Information*
B.A., Pennsylvania State Univ.; M.S., Ohio Univ.

WILLIAM L. HENDERSON, 1960-63, 1965- *Professor, John E. Harris Chair of Economics, and Chairman*
B.S., A.M., Ph.D., Ohio State Univ.

***MAYLON H. HEPP, 1946- *Professor, Maria Teresa Barney Chair of Philosophy, and Chairman*
A.B., M.A., Oberlin College; Ph.D., Brown Univ.

J. LESLIE HICKS, JR., 1968- *Director of Business and Finance*
B.A., Gettysburg College; M.S., Bucknell Univ.

*On leave first semester, 1969-70

***On leave all year, 1969-70

- ERIC E. HIRSHLER, 1959- *Professor and Chairman, Visual Arts*
B.A., Bowdoin College; M.A., Ph.D., Yale Univ.
- PAUL S. HOFFMAN, 1966- *Assistant Professor of Theatre Arts*
B.S., Carroll College (Wis.); M.F.A., Ohio Univ.
- ***WILLIAM A. HOFFMAN, JR., 1960- *Professor of Chemistry*
B.S., Missouri Valley College; M.S., Ph.D., Purdue Univ.
- JOHN HOLIAN, JR., 1969- *Assistant Professor of Sociology*
B.A., M.A., Bowling Green State Univ.
- HOWARD R. HOLTER, 1966- *Assistant Professor of History (Russian Studies)*
B.A., Northwestern Univ.; M.A., Ph.D., Univ. of Wisconsin.
- ***PAULINE O. HOOVER (MISS), 1938-50; 1952- *Catalog Librarian*
B.A., Denison Univ.; B.S. in L.S., Western Reserve Univ.
- JOHN K. HUCKABY, 1958- *Professor of History*
B.A., Baylor Univ.; M.A., Columbia Univ.; Ph.D., Ohio State Univ.
- STANLEY W. HUFF, 1967- *Assistant Professor of Economics*
B.A., Kenyon College; M.A., Princeton Univ.
- GEORGE R. HUNTER, 1954- *Associate Professor of Music*
B.F.A. (Mus. Ed.), B.F.A. (Mus.), M.F.A. (Mus.), Carnegie Mellon Univ.
- FREDERIC JACOBS, 1967- *Assistant Professor of English*
B.A., Dickinson College; M.A., Ph.D., Univ. of Pennsylvania
- JEFFREY S. JALBERT, 1967- *Assistant Professor of Physics*
B.A., Fairfield Univ.; Ph.D., Virginia Polytechnic Inst.
- STANLEY JONAITIS, 1956- *Associate Professor of Modern Languages*
M.A., Vilnius (Lithuania); Ph.D., Univ. of Michigan.
- ***ARNOLD JOSEPH, 1963- *Associate Professor of Modern Languages*
B.S.Ed., M.A., Ph.D., Ohio State Univ.
- MICHAEL JUNG, 1967- *Assistant Professor of Visual Arts*
B.A., Denison Univ.; M.F.A., Univ. of Wisconsin.
- ***ZAVEN A. KARIAN, 1964- *Assistant Professor of Mathematics*
B.A., American International College; M.A., Univ. of Illinois.
- MICHAEL M. KATZMAN, 1968- *Assistant Professor of Geology and Geography*
B.A., Hofstra Univ.
- MERVYN M. KEIZER, 1968- *Assistant Professor and Chairman, Classical Languages*
B.A., Univ. of Toronto; A.M., Ph.D., Harvard Univ.

**On leave second semester, 1969-70

***On leave all year, 1969-70

- JOHN D. KESSLER, 1969- *Assistant Professor of Modern Languages*
B.A., Ohio Wesleyan Univ.; M.A., Univ. of Texas.
- RICHARD D. KIMBLE, 1966- *Visiting Lecturer in Dance* (part-time)
- GORDON M. KIMBRELL, 1967- *Assistant Professor of Psychology*
A.B., Ph.D., Univ. of Tennessee.
- *HORACE KING, 1931- *Professor of Visual Arts*
A.B., A.M., Ohio State Univ.
- PAUL G. KING, 1967- *Assistant Professor of Economics*
A.B., M.A., Univ. of Detroit.
- KENNETH P. KLATT, 1969- *Assistant Professor of Biology*
B.S., Ohio State Univ.; Ph.D., Univ. of Minnesota.
- J. THEODORE KLEIN, 1969- *Assistant Professor of Philosophy*
B.S., Academy of the New Church College; M.Ed., Temple Univ.; M.A., Ph.D., Boston Univ.
- M. PETER KOCHMAN, 1969- *Assistant Professor of Political Science*
B.A., Wabash College; M.A., Manchester Univ.
- RALPH C. KOMIVES, 1969- *Instructor in Visual Arts*
B.F.A., Illinois Wesleyan Univ.; M.F.A., Southern Illinois Univ.
- QUENTIN G. KRAFT, 1961- *Associate Professor of English*
A.B., Brown Univ.; M.A., Ph.D., Duke Univ.
- RICHARD KRAUS, 1966- *Associate Professor of English*
A.B., A.M., Univ. of Michigan; Ph.D., Stanford Univ.
- ROY L. KRUEGER, 1968- *Assistant Professor of Psychology*
B.B.A., Univ. of Wisconsin.
- LAURENCE E. KUNES, 1969- *Instructor in Mathematics*
B.S., M.S., Ohio State Univ.
- *HERMAN W. LARSON, 1944- *Assistant Professor of Music*
A.B., Augustana College (S.D.)
- LEE E. LARSON, 1966- *Assistant Professor of Physics*
B.S., Bates College; M.A., Dartmouth College; Ph.D., Univ. of New Hampshire.
- LARRY C. LEDEBUR, 1967- *Assistant Professor of Economics*
B.A., Austin College; M.S., Ph.D., Florida State Univ.
- ALFRED W. LEVER, 1963- *Associate Professor of History*
B.S., M.A., Ph.D., Univ. of Wisconsin.

*On leave first semester, 1968-69

- NANCY ELOISE LEWIS (MISS), 1946- *Professor, Lorena Woodrow Burke
Chair of English*
A.B., Denison Univ.; M.A., Duke Univ.; Ph.D., Ohio State Univ.
- ANTHONY J. LISSKA, 1969- *Assistant Professor of Philosophy*
A.B., Providence College; M.A., St. Stephen's College.
- KEN V. LOATS, 1968- *Assistant Professor of Biology*
B.A., Central College (Iowa); M.S., State Univ. of Iowa; Ph.D., Ohio
State Univ.
- RAYMOND A. McKENNA, 1955- *Manager of Bookstore*
B.A., Brown Univ.
- RICHARD H. MAHARD, 1941- *Professor of Geology and Geography*
A.B., Eastern Michigan Univ.; M.A., Ph.D., Columbia Univ.
- BRUCE R. MARKGRAF, 1966- *Associate Professor and Chairman, Speech*
B.S., M.S., Ph.D., Univ. of Wisconsin.
- GEORGE MAROVICH, 1968- *Business Manager*
B.A., Univ. of Pittsburgh.
- KENNETH B. MARSHALL, 1953- *Professor and Chairman, English*
A.B., M.A., Ph.D., Univ. of Michigan.
- JAMES L. MARTIN, 1957- *Professor and Chairman, Religion*
A.B., Oklahoma City Univ.; B.D., Ph.D., Yale Univ.
- MICHAEL E. MICKELSON, 1969- *Assistant Professor of Physics*
B.S., Ph.D., Ohio State Univ.
- JOHN N. MILLER, 1962- *Associate Professor of English*
A.B., Denison Univ.; A.M., Ph.D., Stanford Univ.
- LAWRENCE H. MILLER, 1953-55; 1965- *Physician for Student Health
Service (part-time)*
A.B., Allegheny College; M.D., Univ. of Pennsylvania.
- *IRVING E. MITCHELL, 1949- *Professor and Chairman, Sociology*
A.B., Gordon College; M.A., Univ. of New Hampshire; Ph.D., Boston
Univ.
- ***ROY D. MOREY, 1965- *Assistant Professor of Political Science*
B.A., Northern Arizona Univ.; M.A., Ph.D., Univ. of Arizona.
- CHARLES J. MORRIS, 1969- *Assistant Professor of Psychology*
B.S., Denison; M.A., Ph.D., Univ. of Missouri.
- LeROSS MORRIS, 1953- *Director of Physical Plant*
B.S., Iowa State College.

*On leave first semester, 1969-70

***On leave all year, 1969-70

Personnel

- JOSEPHINE P. MOSS (MRS.)**, 1950-
A.B., Hiram College; B.S. in L.S., Western Reserve Univ. *Reference Librarian*
- WANDA J. MOURANT (MRS. RONALD R.)**, 1967-
A.B., Ph.D., Indiana Univ. *Assistant Professor of Mathematics*
- GABOR NEUMANN**, 1965-
Diploma, Bartok (Hungary) Conservatory; Diploma, B.S., M.S., Juilliard School of Music. *Assistant Professor of Music*
- HERMAN W. NIBBELINK**, 1969-
A.B., Calvin College. *Instructor in English*
- IRVING A. NICKERSON**, 1956-57; 1964-
B.A., M.D., Ohio State Univ. *Physician for Student Health Service and Administrator of Whisler Hospital*
- BEATRICE NIVENS (MISS)**, 1969-
A.B., Fisk Univ. *Assistant Dean of Women, Adviser to Black Women Students*
- GAIL R. NORRIS**, 1949-51; 1959-
B.S.Ed., Ohio Univ.; M.S., Ph.D., Ohio State Univ. *Professor and Chairman, Biology*
- VIRGINIA C. NORTROP (MRS.)**, 1950-51; 1953-
B.A., William Smith College; M.A., Sarah Lawrence College. *Associate Professor of Dance*
- MAJOR ROBERT E. NUGENT, USAF**, 1969-
B.S., Rutgers Univ. *Professor of Aerospace Studies*
- WILLIAM OSBORNE**, 1961-
Mus.B., Mus.M., A.Mus.D., Univ. of Michigan. *Associate Professor of Music*
- TIMOTHY D. OTIS**, 1966-
B.A., M.A., DePauw Univ. *Assistant Professor of Psychology*
- GWILYM E. OWEN, JR.**, 1966-
B.S., Antioch College; Ph.D., Syracuse Univ. *Assistant Professor of Chemistry*
- HENRY M. PAUSCH**, 1964-
B.S.Ed., M.S., Ohio Univ. *Instructor in Economics (part-time)*
- MAJOR CHARLES M. PERKINS, USAF**, 1967-
A.B., George Washington Univ. *Assistant Professor of Aerospace Studies*
- VIRGINIA N. PETER (MRS. RICHARD)**, 1969-
B.A., Alverno; M.A., Ph.D., Univ. of Colorado. *Assistant Professor of Modern Languages*
- LOUIS PETITO**, 1953-
B.A., Princeton Univ.; C.P.A. *Controller*

- RALEIGH K. PETTEGREW**, 1968- *Assistant Professor of Biology*
B.A., Baldwin-Wallace College; Ph.D., Kent State Univ.
- KEITH W. PIPER**, 1951- *Assistant Professor of Physical Education*
A.B., Baldwin-Wallace College; M.A., Western Reserve Univ.
- NORMAN H. POLLOCK**, 1948- *Professor of History*
A.B., Denison Univ.; A.M., Harvard Univ.; Ph.D., Univ. of Pennsylvania.
- W. NEIL PRENTICE**, 1957- *Associate Professor of Mathematics and
Director, Computer Center*
A.B., Middlebury College; A.B., Brown Univ.; Ph.D., Syracuse Univ.
- FRED L. PRESTON**, 1949- *Professor of Modern Languages*
A.B., Ohio Univ.; A.M., Harvard Univ.; Ph.D., Ohio State Univ.
- WILLIAM PRESTON**, 1954- *Professor of History*
A.B., M.A., Columbia Univ.; Ph.D., Univ. of Wisconsin.
- CALVIN K. PRINE**, 1959- *Director of Development*
B.A., Denison Univ.; LL.B., Univ. of Pennsylvania.
- FRANKLIN PROANO**, 1967- *Instructor in Modern Languages*
B.A., Classic Loyola College (Ecuador); M.A., Lic. Humanities, Lic. Phil., Catholic Univ. of Quito (Ecuador).
- CYRIL G. RANSOPHER**, 1964- *Instructor in Sociology (part-time)*
B.S.Ed., Ohio State Univ.; M.S. (Soc. Adm.), Western Reserve Univ.
- CHANCY R. RAWLEIGH**, 1968- *Assistant Professor of Sociology*
B.A., Lycoming College; S.T.B., Boston Univ. S.T.; M.A., Syracuse Univ.
- ALLEN L. REBUCK**, 1966- *Assistant Professor of Biology*
B.S., Franklin and Marshall College; M.S., Pennsylvania State Univ.; Ph.D., Duke Univ.
- WILLIAM J. L. REES**, 1969- *Visiting Lecturer in Theatre Arts*
Teacher's Certificate, Saltley College; Teacher's Certificate and Licentiate in Speech and Drama, Rose Bruford College.
- DAVID A. RICE**, 1968- *Associate Dean of Chapel, Assistant Professor of
Black Culture, and Adviser to Black Students*
B.A., B.D., Virginia Union Univ.
- ROBERT A. ROBERTS**, 1961- *Professor and Chairman, Mathematics*
B.S., West Virginia Wesleyan College; M.S., West Virginia Univ.; Ph.D., Univ. of Michigan.
- MATTIE E. ROSS (MISS)**, 1952- *Associate Professor of Physical Education*
B.S.Ed., Central Missouri State College; Ed.M., Univ. of Missouri; Ph.D., Ohio State Univ.
- MARIO RUSSO**, 1968- *Assistant Professor of Physical Education*
B.S., Univ. of Akron; M.Ed., Kent State Univ.

Personnel

- PATRICIA RYAN (MISS)**, 1969- *Assistant Professor of Theatre Arts*
B.A., Westhampton College; M.A., Wayne State Univ.
- RICHARD W. RYAN**, 1964- *Librarian*
B.A., Ohio State Univ.; M.S. in L.S., Western Reserve Univ.
- RONALD E. SANTONI**, 1964- *Professor and Acting Chairman, Philosophy*
B.A., Bishop's Univ.; M.A., Brown Univ.; Ph.D., Boston Univ.
- SAMUEL D. SCHAFF**, 1948- *Registrar and Graduate School Counselor*
A.B., Denison Univ.; M.A., Ohio State Univ.; Ed.D., Columbia Univ.
- MORTON L. SCHAGRIN**, 1963- *Associate Professor of History of Science*
B.A., B.S., M.A., Univ. of Chicago; Ph.D., Univ. of California.
- SUSAN J. SCHRAMM (MISS)**, 1969- *Instructor in Physical Education*
B.S.Ed., M.Ed., Miami Univ.
- LEE O. SCOTT**, 1952- *Professor of Philosophy and Religion*
B.A., Occidental College; B.D., Union Theological Seminary; Ph.D., Yale Univ.
- RICHARD S. SCOTT**, 1958- *Assistant Professor of Physical Education*
B.S., Pennsylvania Military College; Ed.M., Univ. of Pittsburgh.
- WALTER T. SECOR**, 1940- *Professor of Modern Languages*
A.B., Grinnell College; A.M., Ph.D., Columbia Univ.
- ROY SEILS**, 1963- *Professor and Chairman, Physical Education (Men)*
B.A., Denison Univ.; Ed.M., Ed.D., Boston Univ.
- ROBERT L. SHANNON**, 1954- *Assistant Professor of Physical Education*
B.A., Denison Univ.; M.A., Ohio State Univ.
- NATALIE M. SHEPARD (MISS)**, 1950- *Professor and Chairman, Physical Education, (Women)*
B.S., Alfred Univ.; M.A., Columbia Univ.; Ed.D., New York Univ.
- GALE W. SIEVERS**, 1967- *Assistant Professor of Speech*
B.S., Wisconsin State Univ.; M.A., Marquette Univ.
- FRANK L. SLESNICK**, 1969- *Assistant Professor of Economics*
A.B., Oberlin College.
- MARK W. SMITH**, 1953- *Dean of Men and Professor of Psychology (part-time)*
B.A., M.A., Ph.D., Ohio State Univ.
- R. TYLER SMITH**, 1966- *Assistant Professor of Education*
B.S., Bowling Green State Univ.; M.S., Indiana Univ.
- WYNDHAM M. SOUTHGATE**, 1946- *Professor of History*
B.A., M.A., Ph.D., Harvard Univ.

- DWIGHT R. SPESSARD, 1953- *Professor, Wickenden Chair of Chemistry*
B.S., Otterbein College; Ph.D., Western Reserve Univ.
- CHARLES W. STEELE, 1949- *Professor and Chairman, Modern Languages*
A.B., Univ. of Missouri; M.A., Univ. of California; Ph.D., Ohio State Univ.
- BEATRICE P. STEPHENS (MRS. C. L.), 1947- *Executive Secretary, Denison Society of the Alumni*
A.B., Lawrence Univ.
- CEPHUS L. STEPHENS, 1949- *Professor of Political Science*
B.S., M.A., Ph.D., Ohio State Univ.
- ANDREW STERRETT, 1953- *Professor of Mathematics, Director of January Term*
B.S., Carnegie Inst. of Technology; M.S., Ph.D., Univ. of Pittsburgh.
- CHARLES J. STONEBURNER, 1966- *Assistant Professor of English*
A.B., DePauw Univ.; B.D., Drew Univ.; M.A., Ph.D., Univ. of Michigan.
- R. ELLIOTT STOUT, 1966- *Assistant Professor and Acting Chairman, Theatre Arts*
B.A., M.A., Ph.D., Ohio State Univ.
- MORTON B. STRATTON, 1943- *Professor and Chairman, History*
A.B., Tufts Univ.; A.M., Ph.D., Univ. of Pennsylvania.
- PHILIP E. STUKUS, 1968- *Assistant Professor of Biology*
B.A., St. Vincent College; M.S., Ph.D., Catholic Univ. of America.
- LUCIE THESZ (MRS. JOSEPH J.), 1969- *GLCA Teaching Associate, Modern Languages*
A.B., M.A., Univ. of Illinois.
- FERRIS THOMSEN, JR., 1965- *Assistant Professor of Physical Education*
B.S.Ed., Univ. of Pennsylvania.
- ROBERT B. TOPLIN, 1968- *Assistant Professor of History*
B.S., Pennsylvania State Univ.; M.A., Ph.D., Rutgers Univ.
- DONALD G. TRITT, 1959- *Director of Psychological Clinic and Associate Professor*
B.S., Ohio State Univ.; Ph.D., Univ. of Chicago.
- DONALD M. VALDES, 1953- *Professor of Sociology and Acting Chairman (first semester)*
B.A., New Jersey State College, Montclair; M.A., George Peabody College; Ph.D., Ohio State Univ.
- ELIZABETH C. VanHORN (MISS), 1953- *Associate Professor of Physical Education*
B.S.Ed., Miami Univ.; M.S., Wellesley College; Ph.D., Ohio State Univ.

- ROSEMARY WALTER, 1968- *Assistant Dean of Women, Adviser to Freshmen*
B.A., Muskingum College; M.A., Cornell Univ.
- ***LAUREL R. WALUM (MRS. HERBERT), 1965- *Assistant Professor of Sociology*
A.B., B.A., Univ. of Chicago; Ph.D., Univ. of Colorado.
- DAVID S. WATSON, 1954- *Professor of History*
B.A., Illinois College; Ph.D., Univ. of Chicago.
- MARJORIE WATSON (MRS. D. S.), 1959- *Instructor in Sociology (part-time)*
- ROBERT J. WATSON, 1969- *Assistant Librarian*
B.S., State Univ. of New York (Buffalo); M.S., State Univ. of New York (Albany); M.L.S., State Univ. of New York (Geneseo).
- CHARLOTTE F. WEEKS (MISS), 1944- *Assistant Director of Admissions*
A.B., Denison Univ.; M.A., Columbia Univ.
- MARION WETZEL (MISS), 1946- *Professor, Benjamin Barney Chair of Mathematics*
A.B., Cornell College; M.A., Ph.D., Northwestern Univ.
- SAMUEL C. WHEELER, 1948- *Professor, Henry Chisholm Chair of Physics, and Chairman, Physics and Astronomy (first semester)*
A.B., Miami Univ.; M.S., Univ. of Illinois; Ph.D., Ohio State Univ.
- PETER P. WIELICZKO, 1966- *Treasurer*
B.S., Babson Inst.
- **CLARKE L. WILHELM, 1962- *Associate Professor of History*
B.A., Univ. of Minnesota; M.A., Ph.D., Johns Hopkins Univ.
- R. DARBY WILLIAMS, 1969- *GLCA Teaching Associate, English*
B.A., Ohio State Univ.
- ***ILSE WINTER (MRS. HARRY), 1967- *Assistant Professor of Modern Languages*
Diploma, Univ. of Kiel (Germany); M.A., Rutgers Univ.
- RONALD R. WINTERS, 1966- *Assistant Professor of Physics*
A.B., King College; Ph.D., Virginia Polytechnic Inst.
- IRVIN S. WOLF, 1954- *Professor and Chairman, Psychology*
A.B., Manchester College; M.A., Ph.D., Indiana Univ.
- L. EUGENE WOLFE, 1935-37, 1966- *Executive Assistant*
A.B., Denison Univ.
- DAVID O. WOODYARD, 1960- *Dean of Chapel and Assistant Professor of Religion*
B.A., Denison Univ.; B.D., Union Theological Seminary; S.T.M., Oberlin College.
- VITALY WOWK, 1968- *Assistant Professor of Modern Languages*
B.A., Mississippi State Univ.; M.A., Ohio State Univ.

**On leave second semester, 1969-70

***On leave all year, 1969-70

Summary of Enrollment

First Semester, 1968-69

<i>State</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Alabama	1	1	2
Arizona	3	1	4
California	8	3	11
Colorado	1	3	4
Connecticut	37	30	67
Delaware	0	5	5
District of Columbia	3	3	6
Florida	4	6	10
Georgia	0	1	1
Hawaii	1	0	1
Illinois	93	70	163
Indiana	37	41	78
Iowa	5	2	7
Kansas	2	0	2
Kentucky	13	8	21
Louisiana	1	0	1
Maine	0	2	2
Maryland	29	29	58
Massachusetts	33	23	56
Michigan	49	33	82
Minnesota	0	3	3
Missouri	15	13	28
Nebraska	2	1	3
New Hampshire	5	0	5
New Jersey	55	43	98
New Mexico	0	1	1
New York	102	86	188
North Carolina	0	1	1
North Dakota	0	1	1
Ohio	427	281	708
Oklahoma	4	1	5
Pennsylvania	129	132	261
Rhode Island	7	7	14
South Carolina	1	0	1
Tennessee	2	1	3
Texas	5	2	7
Utah	1	0	1
Vermont	3	2	5
Virginia	6	9	15
West Virginia	10	18	28
Wisconsin	17	15	32
	<hr/> 1,111	<hr/> 878	<hr/> 1,989

Summary of Enrollment

<i>Foreign Countries</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>
Belgium	1	1	2
Brazil	1	0	1
Canada	3	0	3
Colombia	0	1	1
England	1	1	2
Hong Kong	1	1	2
Italy	0	1	1
Japan	2	1	3
Malaysia	1	0	1
Puerto Rico	1	0	1
Turkey	1	0	1
Uganda, East Africa	0	1	1
West Germany	0	1	1
	<hr/> 12	<hr/> 8	<hr/> 20*
GRAND TOTAL	1,123	886	2,009
Total States Represented			41
Total Foreign Countries Represented			13

STUDENT ENROLLMENT FOR 1968-69

First Semester

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Seniors	245	173	418
Juniors	217	201	418
Sophomores	311	241	552
Freshmen	350	271	621
Total	<hr/> 1,123	<hr/> 886	<hr/> 2,009
Part-time and Special	4	22	26
GRAND TOTAL	1,127	908	2,035

Second Semester

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Seniors	243	158	401
Juniors	211	193	404
Sophomores	298	231	529
Freshmen	345	268	613
Totals	<hr/> 1,097	<hr/> 850	<hr/> 1,947
Part-time and Special	7	14	21
GRAND TOTAL	1,104	864	1,968

*Includes 9 born in the U.S.A.

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